Avid | DS 4.02

INSTALLATION & ADMINISTRATION GUIDE

The Avid|DS 4.02 *Installation & Administration Guide* was written by Patrick Bayne, Geneviève Laberge, Sylvain Labrosse, and Dominic Mercier and edited by Liven Tam. Formatting, layout, and illustrations by Luc Langevin and Jim Royal.

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FCC Notice

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.

2. This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Canadian ICES-003

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

European Union Notice

CE

Declaration of Conformity (According to ISO/IEC Guide 22 and EN 45014)

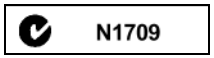
Application of Council Directives:	73/23/EEC, 89/336/EEC.
Standards to which Conformity is Declared:	EN60950:1992 + A1 + A2 + A3 + A4 + A11 CISPR 22:1985 / EN55022:1988 Class A EN55024:1998 + A1
Manufacturer's Name:	Avid Technology, Inc. 1925 Andover Street Tewksbury, MA 01876, USA
European Contact:	Nearest Avid Sales and Service Office or Avid Technology Sales Ltd. Sandyford Business Center Unit 3, Dublin 18, Ireland
Type of Equipment:	Information Technology Equipment
Product Name:	Products for the Windows NT Operating System: Avid|DS
Base Model Numbers:	None
Product Options:	All
Year of Manufacture:	2001

Products for the Windows NT Operating System: products were tested in a typical Avid|DS configuration.

I, the undersigned, hereby declare that the equipment specified above conforms to the above Directives and Standards.

George R. Smith, Director of Hardware Design and Development

Australia and New Zealand EMC Regulations



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French Forest NSW 2086
Australia
Phone: 61-2-8977-4800

Taiwan EMC Regulations BSMI Class A EMC Warning

警告使用者:
這是甲類的資訊產品，在居住的環境中使用時，可能會造成射頻干擾，在這種情況下，使用者會被要求採取某些適當的對策。

Warnings

To reduce the risk of electrical shock, do not attempt to open the equipment unless instructed. Do not use a tool for purpose other than instructed.

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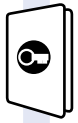
Before You Start

Where to Find Information

The Avid®|DS package includes a comprehensive set of learning materials. With this Roadmap, you'll know where to find the information you need to get up and running quickly and effectively.



Start with the **Workstation Setup Guide** to prepare your site for Avid|DS and assemble your workstation.

Use the **Installation & Administration Guide** if you need to reinstall and license any of the components, or for tips on the daily maintenance of your system.

Refer to the **Release Notes** for feature limitations and workarounds.

You can join the **Avid|DS Discussion Group**, a worldwide network of Avid|DS users exchanging ideas and techniques by e-mail. To subscribe, send an e-mail to **majordomo@softimage.com** with the following text in the body of your message: **subscribe ds**.

Comments?

We'd appreciate any comments or suggestions you may have about this guide or any other piece of our documentation. Just send them to: **dsdocs@avid.com**.

About This Guide

This guide provides information on installing Avid|DS, upgrading from previous versions of Avid|DS, and the daily administration and management of your Avid|DS workstation. Following these guidelines can help ensure the successful operation of your system.

Who Should Use This Guide?

This guide is intended for anyone who is installing an Avid|DS system for the first time, upgrading a system, or responsible for the daily management and administration of the system.

New to Users

The Avid|DS workstation comes with the software and drivers already installed. As a new user or someone who's just received a new Avid|DS system, you do not have to install the Avid|DS software. You should read the following chapters:

- Chapter 4: *Installing the License File* on page 49.
- Chapter 5: *Managing Your Avid|DS Workstation* on page 57.

Existing Users

If you already have an Avid|DS system and need to upgrade or reinstall, use the following procedures.

To upgrade Avid|DS

1. Verify the hardware drivers—see *Verifying the Installed Drivers* on page 21.
2. Uninstall Avid|DS—see Chapter 1: *Uninstalling Avid|DS* on page 13.
3. Upgrade the hardware drivers—see *Reinstalling the Hardware Drivers* on page 22.
4. Install the new version of Avid|DS—see Chapter 3: *Installing Avid|DS* on page 37.
5. Install the License—see Chapter 4: *Installing the License File* on page 49.

To reinstall Avid|DS

1. Verify the hardware drivers—see *Verifying the Installed Drivers* on page 21.
2. Uninstall Avid|DS—see Chapter 1: *Uninstalling Avid|DS* on page 13.
3. Upgrade the hardware drivers—see *Reinstalling the Hardware Drivers* on page 22.
4. Install the new version of Avid|DS—see Chapter 3: *Installing Avid|DS* on page 37.

System Administrators

System administrators are typically responsible for the maintenance of the Avid|DS system and should consult the following chapters.

- Chapter 2: *Reinstalling the Avid|DS Hardware Drivers* on page 19.
- Chapter 5: *Managing Your Avid|DS Workstation* on page 57.

Document Conventions

This guide uses the following symbols and conventions:

Bold Bold is used for menu commands, dialog box and property editor options, and file/folder names.

> The greater than (>) sign indicates menu commands (and subcommands) in the order that you choose them. For example, **File** > **Import** means to open the File menu and then choose the Import command. This applies to menus from the main menu bar and pop-up menus that appear when you right-click on the interface.

Notes are reminders or contain important information.

Tips are useful bits of information, workarounds, and shortcuts that you may find helpful in a particular situation.

Warnings are used when you can lose or damage information or equipment, such as deleting data, or not being able to easily undo an action. Warnings always appear *before* you attempt a task!

Avid|DS Support

Technical support for Avid|DS is provided by your Avid reseller working together with Avid|DS Customer Service. Immediate assistance for any technical issue is available through our hotline, e-mail, and web support services.

Licensing Support

You must contact your reseller to request a license for your Avid|DS system. You can do this directly or through the license request form provided at **http://www.softimage.com/licensing/request**.

Training Support

If you're interested in Avid|DS training, you'll find a complete overview of courses, education centers, and training programs at **http://avid.com/education**.

Hotline Support

Avid resellers provide first line support for Avid|DS according to their specific geographical area and time zone. Working as an extension of Avid|DS Customer Service, these fully trained agents provide the most efficient and effective support possible to all our customers. Contact information for your Avid reseller is available through the Avid Reseller Locator at **http://avid.com/cgi/locator**.

You can also reach Avid|DS Customer Service at the following hours and telephone numbers:

North America

Avid|DS Customer Service
3510 St-Laurent Boulevard
Montreal (Quebec) Canada
H2X 2V2

Hours
9:00 am to 9:00 pm (Eastern)
2:00 pm to 2:00 am (GMT)

Hotline assistance is also available 24 hours a day, 7 days a week for an additional fee.

U.K. and International

Avid|DS Customer Service Europe
Pinewood Studios
Pinewood Road
Iver Heath, Buckinghamshire SL0 0NH

Hours
9:00 am to 6:00 pm (GMT)
4:00 am to 1:00 pm (Eastern)

Support Telephone and Fax Numbers

Worldwide

Tel: 514 845 2199
Fax: 514 845 8252

North America

Tel: 800 387 2559
Fax: 514 845 8252

U.K. and International

Tel: + 44 1 753 650 670
Fax: + 44 1 753 658 503

E-mail Support

You can contact Avid|DS Customer Service at any time by sending e-mail to **dssupport@avid.com**.

Avid|DS Mailing List

If you have an e-mail account, you can join the worldwide network of Avid|DS users exchanging ideas. The mailing list has proven to be quite useful for users, with a constant stream of new subscribers.

To subscribe, send an e-mail to **majordomo@softimage.com** with the following text in the body of your message: **subscribe ds**. You can get further information on using the automated list server by e-mailing **majordomo@softimage.com** with "help" as your message.

The discussion group is provided for technical exchanges between customers. Although Avid|DS Customer Service is not provided through these discussions, we do contribute.

Web Support

The Avid|DS Support and Download sections at **http://avid.com/support/ds_support** provide quick access to a wide range of resources from the Avid|DS teams and user community. Downloads, including presets, drivers, and Quick Fix Engineering (QFE), provide the latest solutions for using with your Avid|DS system. Online documentation, tutorials, and Knowledge Base articles ensure you get the most out of your work with Avid|DS. It's like having a dedicated Avid|DS Customer Service engineer sitting at your desk!

Chapter 1 Uninstalling Avid|DS

In This Chapter...

This chapter describes how to uninstall Avid|DS. Follow the instructions in this section if you need to reinstall or upgrade Avid|DS.

Uninstalling Avid|DS 15

Uninstalling Avid|DS

When you first receive your Avid|DS workstation, all the software you need to run Avid|DS is already installed and tested. You should follow the instructions in this chapter only if you are reinstalling or upgrading Avid|DS.

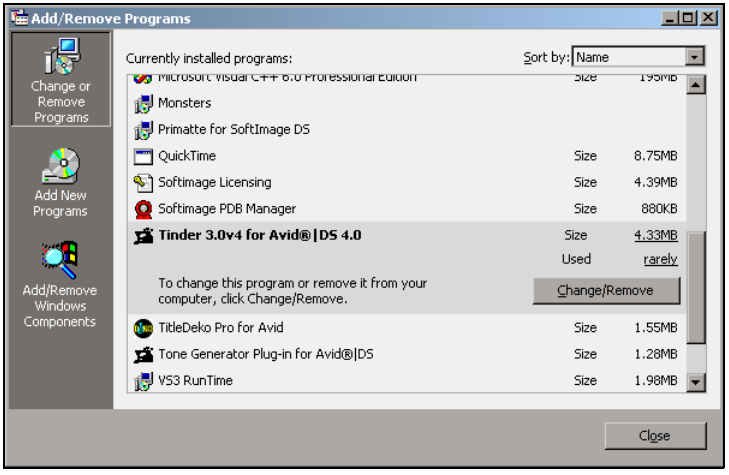
Removing Plug-ins

Before you remove the Avid|DS software, you must first remove any plug-ins that were installed on your system.

If you uninstall Avid|DS before uninstalling the plug-ins, the uninstall procedure will fail.

To remove plug-ins

1. Go to **Start** > **Settings** > **Control Panel** > **Add/Remove Programs**.



2. Click **Change or Remove Programs**.
3. In the Currently Installed Programs list, check for any of the following plug-ins:
   - Boris FX (Artel Software, Inc.)
   - Monsters (5D Ltd)
   - Primatte (Photron USA)
   - Tinder (The Foundry)
   - Ultimatte (Ultimatte Corporation)

4. Select the plug-ins installed on your system (one at a time) and click **Change/Remove**. Repeat this step until they're all removed.
5. Remove all Avid|DS native plug-ins:
   - Dual Audio Channel Switcher
   - Tone Generator

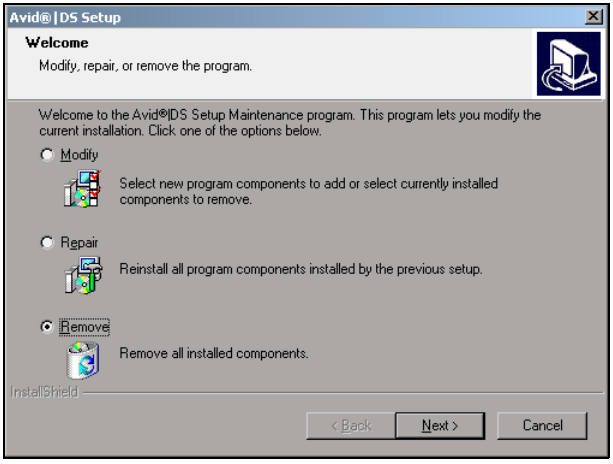
If you cannot uninstall some plug-ins, continue with the next one until completion, and then manually delete the Plug-In folder. Use the Windows 2000 Find utility to help you locate any Plug-In folders.

Removing Avid|DS

Once you've finished removing the plug-ins, you can uninstall the Avid|DS software.

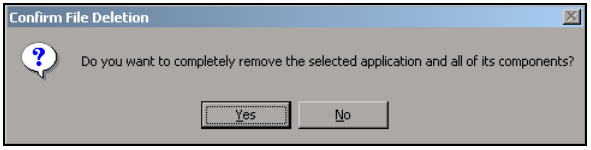
To remove Avid|DS

1. Go to **Start** > **Programs** > **Avid Products** > **Avid|DS v4.02** > **Setup**.


Avid®|DS Setup
Welcome
Modify, repair, or remove the program.
Welcome to the Avid®|DS Setup Maintenance program. This program lets you modify the current installation. Click one of the options below.
Modify
Select new program components to add or select currently installed components to remove.
Repair
Reinstall all program components installed by the previous setup.
Remove
Remove all installed components.
InstallShield
< Back
Next >
Cancel

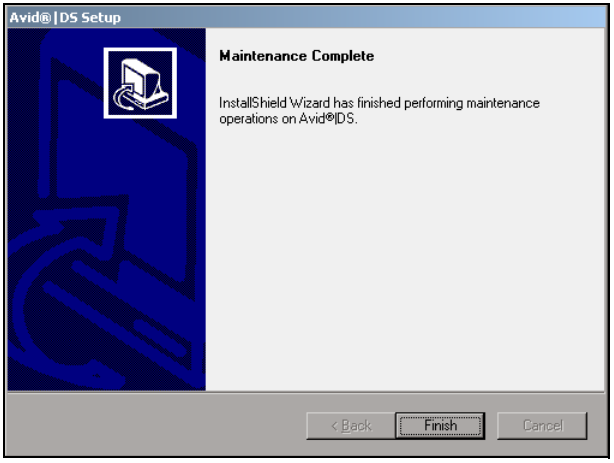
2. Select the **Remove** option and click **Next**.

   The Confirm File Deletion dialog box is displayed.



3. Click **Yes**.

   The Avid|DS files are removed from your system, and the Maintenance Complete dialog box is displayed.



4. Click **Finish**.

If you're prompted to restart the system, do so immediately to properly register the software to the operating system.

Removing the PICVideo MJPEG Codec

The standard definition version of Avid|DS 4.02 uses the PICVideo MJPEG codec to provide software-based video compression. The Avid|DS Setup program installs the codec automatically but cannot uninstall it. To uninstall the standard definition version of Avid|DS 4.02, use the following procedure to remove the PICVideo MJPEG codec.

To remove the PICVideo MJPEG codec

1. Go to **Start** > **Settings** > **Control Panel** > **Sounds and Multimedia**.
2. Select the **Hardware** tab.
3. In the list of devices, select **Video Codecs.**
4. Click **Properties**.
5. Select the **Properties** tab.
6. Select the **PICVideo MJPEG Codec**.
7. Click **Remove**.
8. When prompted, click **Yes** to remove the codec.

Chapter 2 Reinstalling the Avid|DS Hardware Drivers

In This Chapter...

This chapter describes how to reinstall the hardware drivers for your Avid|DS workstation.

Verifying the Installed Drivers. 21

Reinstalling the Hardware Drivers 22

Verifying the Installed Drivers

You can use System Diagnostics utility to verify that you have the correct hardware drivers installed and determine which, if any, need to be reinstalled.

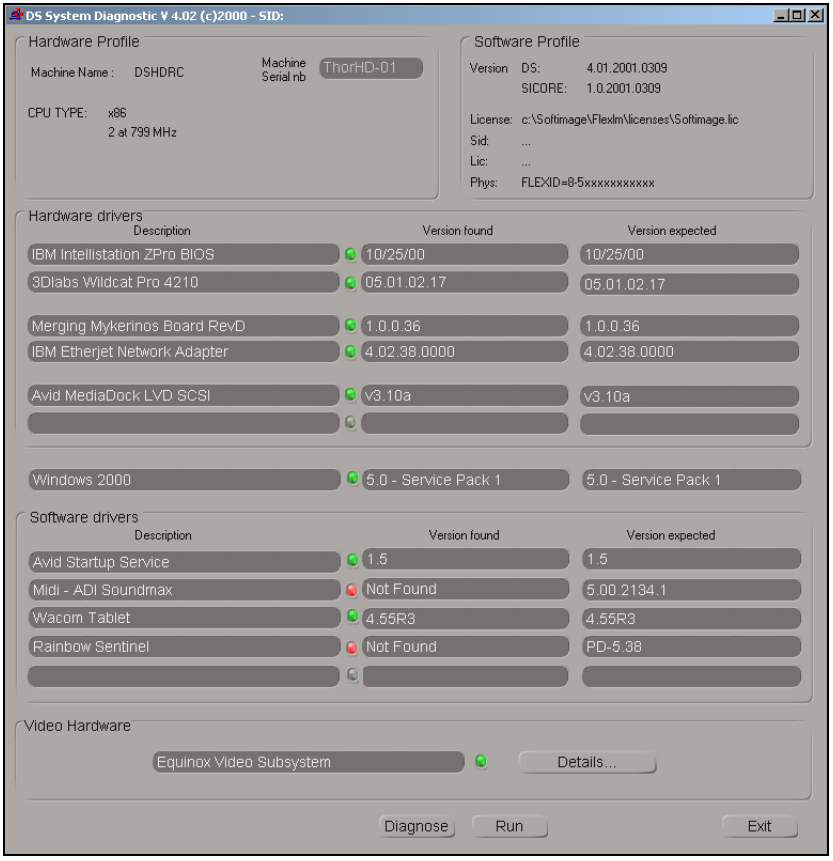
To verify the list of installed drivers

1. Go to **Start** > **Programs** > **Avid Products** > **Avid|DS v4.02** > **Customer Service** > **System Diagnostic**.

   The System Diagnostic utility is displayed.

2. In the Machine Serial number box, enter the serial number of your workstation and click **Run**.

   You should see something similar to the following:



3. If, for any of the listed drivers, the version found does not match the version expected, you need to update that driver—see *Reinstalling the Hardware Drivers* on page 22.

Reinstalling the Hardware Drivers

When you first receive your Avid|DS workstation, all the software you need to run Avid|DS is already installed and tested. You should not remove or modify the installed software.

You should follow the instructions in this chapter only if you need to update, reinstall, or reconfigure specific system software components, or if you need to reinstall Avid|DS.

For specific details on hardware drivers, refer to the accompanying vendor documentation and the Readme file that comes with each driver. The Readme file is a good place to look for information on the version of the drivers you're using.

You can get the drivers from the Avid|DS Drivers CD that comes with your workstation. Updated and improved versions of these drivers are posted to the Avid|DS web site. For more information, see *Web Support* on page 12.

If any of the necessary drivers are not present on the Avid|DS Drivers CD, contact Avid|DS Customer Service.

Reinstalling the drivers is a very sensitive process. Make sure you follow all the instructions carefully and do not skip any steps. You also need to be logged on as Administrator when reinstalling drivers.

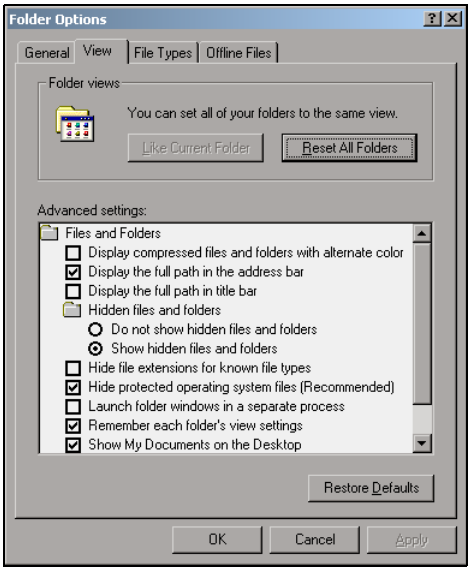
Displaying Hidden Files

During the course of reinstalling the drivers, you'll browse through different file folders on the Avid|DS Drivers CD and the system drive. Because of this, it's important that the browser windows do *not* hide any files or file extensions.

To show all files

1. Go to **Start** > **Settings** > **Control Panel** > **Folder Options**.
2. Select the **View** tab.

3. In the Advanced Settings list, select the **Show hidden files and folders** option.


Folder Options
General
View
File Types
Offline Files
Folder views
You can set all of your folders to the same view.
Like Current Folder
Reset All Folders
Advanced settings:
Files and Folders
Display compressed files and folders with alternate color
Display the full path in the address bar
Display the full path in title bar
Hidden files and folders
Do not show hidden files and folders
Show hidden files and folders
Hide file extensions for known file types
Hide protected operating system files (Recommended)
Launch folder windows in a separate process
Remember each folder's view settings
Show My Documents on the Desktop
Restore Defaults
OK
Cancel
Apply

4. Deselect the **Hide file extensions for known file types** option and click **OK**.

Upgrading the System BIOS

If you have to upgrade the system BIOS, contact IBM to obtain the correct BIOS. Once you've received the correct BIOS, follow the instructions included with it to create a bootable BIOS diskette. After you've created the BIOS diskette, you can upgrade the system BIOS.

To update the system BIOS

1. Insert the BIOS diskette in the A: drive and restart the workstation.
2. When prompted, enter the following settings:
   - **Your country**: U.S., or <the country you're in>
   - **Update system serial number**: No
   - **Update system model**: No
   - **Enable enhanced security**: No
   - **Show different logos at startup**: No
3. When you're finished, remove the diskette and restart the workstation.

Reinstalling the WACOM Tablet Driver

The WACOM tablet driver is necessary if you want to use the WACOM tablet to operate Avid|DS. You must remove older versions of the WACOM driver before installing the latest version. Once you've removed the old WACOM driver, you can install the latest version.

You should *always* install the WACOM tablet driver before installing Avid|DS. Installing this driver after Avid|DS causes a conflict that prevents Avid|DS from using the COM ports.

To remove the old WACOM driver

1. Go to **Start** > **Settings** > **Control Panel** > **Add/Remove Programs**.
2. Select **Change or Remove Programs**.
3. In the Currently Installed Programs list, select **Wacom Tablet Driver**.
4. Click **Add/Remove**.
5. When prompted to confirm file deletion, click **Yes**.
6. When removal is completed, click **OK**.
7. Restart the workstation.

To install the latest WACOM driver

1. On the Avid|DS Drivers CD, open the **\drivers\wacom\driver** folder.
2. Double-click on the **WSetup.exe** file.
3. In the WinZip Self-Extractor, click **Setup**.
4. If you get an error message from Windows at this point, exit **Setup** and restart it.
5. At the Software License Agreement, click **Yes**.
6. At the Information window, click **Next**.
7. Click **Next** to accept the default destination.
8. Select **Automatically search available ports**, and click **Next**.
9. Click **Next** and then **Finish** to complete the installation and let the Self-Extractor close itself.
10. When completed, use the tablet to trigger the driver.
11. Go to **Start** > **Settings** > **Control Panel** > **Wacom Tablet** to set up the tablet and accessories to your personal preferences.

To view the WACOM Tablet Properties help file, you must manually copy the **Manual.pdf** and **Help.pdf** files to the Wacom folder. The default location of this folder is C:\Program Files\Wacom.

You will need the Adobe Acrobat Reader to view the PDF documents. You can install the Acrobat Reader from the Avid|DS Drivers CD under **\utils\acreader\acr40\rs40eng.exe**.

Reinstalling the Intense 3D Wildcat Driver

The Intense 3D Wildcat driver controls the Wildcat 4210 graphics card. This card processes the input from the Avid Equinox™ PCI card, handles Open GL acceleration for the 3D DVE, and outputs a video signal to the dual monitors.

You do not need to remove older versions of the driver from your workstation before you install the new version.

To install the Intense 3D Wildcat driver

1. On the Avid|DS Drivers CD, open the **\drivers\wildcat\driver** folder.
2. Double-click on the **setup.exe** file and proceed with a default installation.

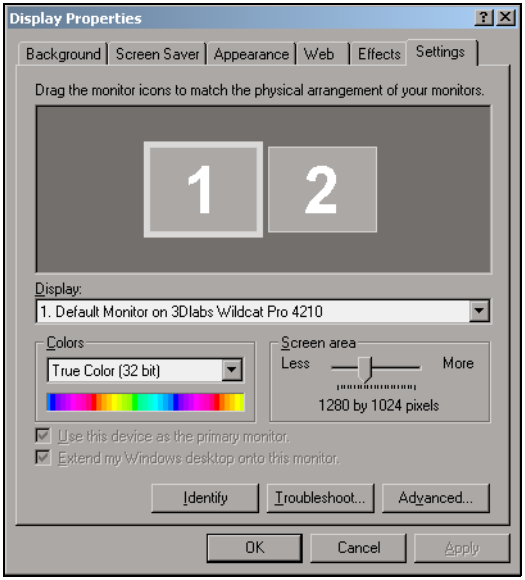
Configuring the Intense 3D Wildcat Driver

Once you've installed the driver, you need to configure the display properties to take full advantage of the card's features.

To configure the Intense 3D Wildcat driver

1. Right-click on the desktop and choose **Properties**.
2. Select the **Settings** tab.

   The following dialog box is displayed.



3. Select monitor 1 and specify the following settings:

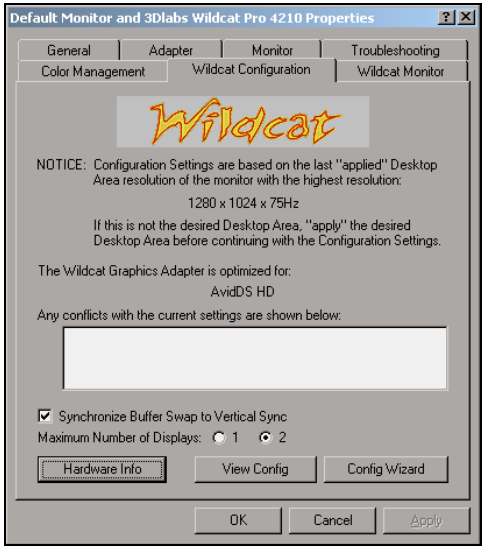
Parameter	Description
Display	Plug and Play monitor...
Colors	True Color (32 bit)
Screen Area	1280 by 1024 pixels
Use this device as the Primary monitor	Selected
Extend my Windows desktop onto this monitor	Selected

4. Select monitor 2 and specify the following settings:

Parameter	Description
Display	Plug and Play monitor...
Colors	True Color (32 bit)
Screen Area	1280 by 1024 pixels
Use this device as the Primary monitor	Deselected
Extend my Windows desktop onto this monitor	Selected

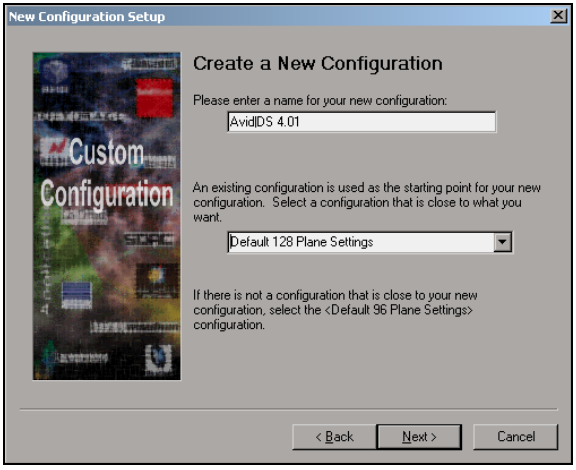
5. Click **Advanced**, and then click the **Wildcat Configuration** tab.

   The following dialog box is displayed.


Default Monitor and 3Dlabs Wildcat Pro 4210 Properties
General
Adapter
Monitor
Troubleshooting
Color Management
Wildcat Configuration
Wildcat Monitor
Wildcat
NOTICE: Configuration Settings are based on the last "applied" Desktop Area resolution of the monitor with the highest resolution:
1280 x 1024 x 75Hz
If this is not the desired Desktop Area, "apply" the desired Desktop Area before continuing with the Configuration Settings.
The Wildcat Graphics Adapter is optimized for:
AvidDS HD
Any conflicts with the current settings are shown below:
Synchronize Buffer Swap to Vertical Sync
Maximum Number of Displays: 1 2
Hardware Info
View Config
Config Wizard
OK
Cancel
Apply

6. For Maximum number of displays, select **2**.
7. Click **Config Wizard**, and then click **Next**.
8. If you've already saved a configuration, select it, and go to step 12.
9. Otherwise, select <**New Configuration**> and click **Next**.

   The New Configuration Setup dialog box is displayed.


New Configuration Setup
Create a New Configuration
Please enter a name for your new configuration:
Avid|DS 4.01
Custom Configuration
An existing configuration is used as the starting point for your new configuration. Select a configuration that is close to what you want.
Default 128 Plane Settings
If there is not a configuration that is close to your new configuration, select the <Default 96 Plane Settings> configuration.
< Back
Next >
Cancel

10. Specify the following settings and click **Next**.

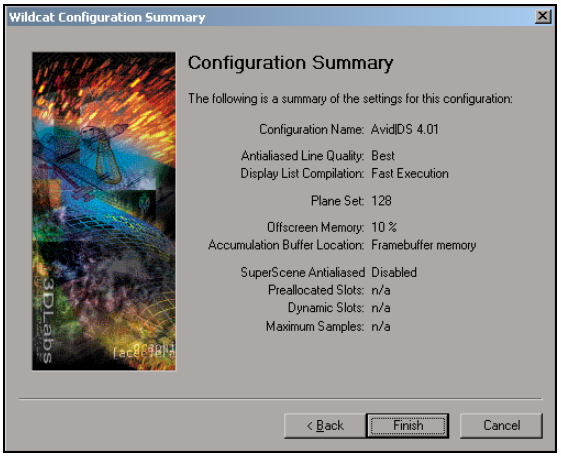
Parameter	Setting
Name of your new configuration	Avid|DS 4.02 (recommended)
Existing configuration	Default 128 Plane Settings

11. Use the following settings as you continue:

Parameter	Setting
Antialiased Line Quality Configuration	Best
Display List Compile Configuration	Fastest Execution
Plane Set Configuration	Plane Set 128
Object Caching Configuration	10% (default)
Accumulation Buffer Configuration	Frame Buffer Memory
Superscene Antialiasing	(none)
Superscene Antialiasing Enable	No

12. Click **Next**.

    The Wildcat Configuration Summary is displayed.



13. Click **Finish**, and then click **OK**.

    The configuration is now complete.

Reinstalling the Merging Mykerinos Audio Driver

The Merging Mykerinos audio driver is for the Mykerinos audio card, which handles the audio input and output for Avid|DS. You must remove older versions of the Merging Mykerinos drivers before you can install the latest version.

To remove the old Merging Mykerinos driver

1. Go to **Start** > **Settings** > **Control Panel** > **Add/Remove Programs**.
2. Select **Change or Remove Programs**.
3. In the Currently Installed Programs list, select **VS3 Runtime**.
4. Click **Add/Remove**.
5. When prompted to confirm file deletion, click **Yes**.
6. When removal is completed, click **OK**.

To install the latest Merging Mykerinos driver

1. On the Avid|DS Drivers CD, open the **\drivers\mkerinos\driver** folder and double-click on the **Vs3rt32.exe** file.
2. Proceed with a default installation.
3. When the installation is complete, restart the workstation.
4. On the Avid|DS Drivers CD, open the **\drivers\mkerinos\driver** folder.
5. Run the **Setup.bat** file to copy the **Vs3core.out** file to the **C:\Program Files\Common Files\Merging Technologies\VS3** folder.

Reinstalling the Avid Startup Write Cache Service

The Avid Startup is a write caching utility that improves the performance of your video storage array.

You do not need to remove older versions of the driver from your workstation before you install the new version.

To install the Avid Startup write cache service

1. On the Avid|DS Drivers CD, open the **\drivers\wrtcache\driver** folder and double-click on the **Setup.exe** file.
2. Proceed with a default installation. You can choose to overwrite the currently installed version.
3. When you're finished, restart the workstation.

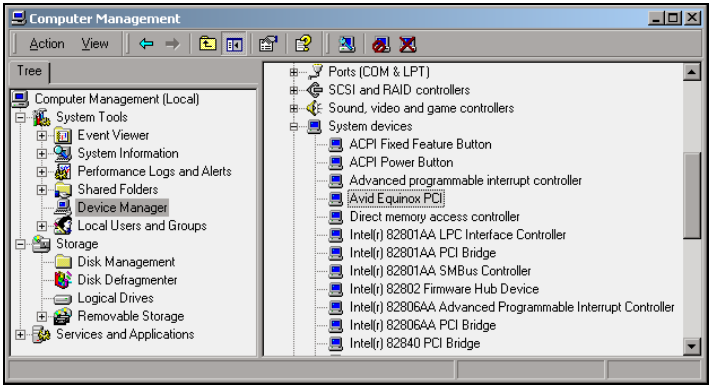
Reinstalling the Avid Equinox™ PCI Driver

The Avid Equinox PCI card processes video capture and playback I/O for the VTR and transfers video to the Wildcat graphics card. It is not necessary to remove the older version of the Avid Equinox PCI driver before installing the current version.

To install the Avid Equinox PCI driver

1. Right-click on **My Computer** and choose **Manage**.

   The Computer Management window is displayed.



2. Using the tree (left), select **Device Manager** and open **System Devices**.
3. Right-click on **Avid Equinox PCI** and choose **Properties**.

   The Avid Equinox PCI Properties dialog box is displayed.
4. Select the **Driver** tab and click **Update Driver**.

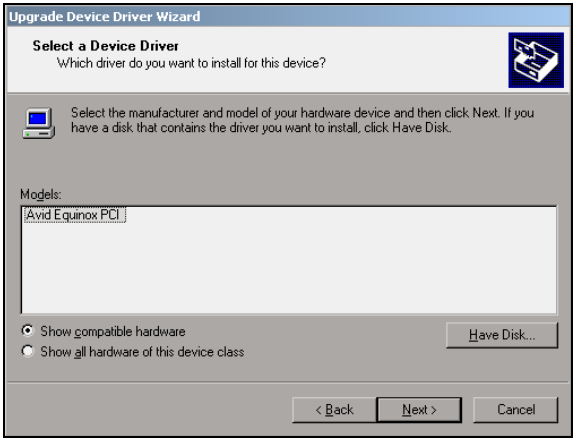
   The Update Device Driver Wizard is displayed.
5. Click **Next**.

The Install Hardware Device Drivers dialog box is displayed.

Upgrade Device Driver Wizard
Install Hardware Device Drivers
A device driver is a software program that enables a hardware device to work with an operating system.
This wizard upgrades drivers for the following hardware device:
Avid Equinox PCI
Upgrading to a newer version of a device driver may add functionality to or improve the performance of this device.
What do you want the wizard to do?
Search for a suitable driver for my device (recommended)
Display a list of the known drivers for this device so that I can choose a specific driver
< Back
Next >
Cancel

6. Select the **Display a list of the known drivers...** option and click **Next**.

   The Select a Device Driver dialog box is displayed.


Upgrade Device Driver Wizard
Select a Device Driver
Which driver do you want to install for this device?
Select the manufacturer and model of your hardware device and then click Next. If you have a disk that contains the driver you want to install, click Have Disk.
Models:
Avid Equinox PCI
Show compatible hardware
Show all hardware of this device class
Have Disk...
< Back
Next >
Cancel

7. Click **Have Disk**.

   The Install From Disk dialog box is displayed.

8. Click **Browse** and go to the **\drivers\equinox\driver** folder on the Avid|DS Drivers CD.

9. Click **Open**.

10. In the Install From Disk dialog box, click **OK**.

11. In the Select a Device Driver dialog box, select **Avid Equinox PCI** and click **Next.**

12. Click **Next** again to start the installation.
13. When the installation is complete, click **Finish** to close the wizard.
14. In the Controller Properties dialog box, click **Close**.

Reinstalling the Avid Equinox Break-Out-Box Driver

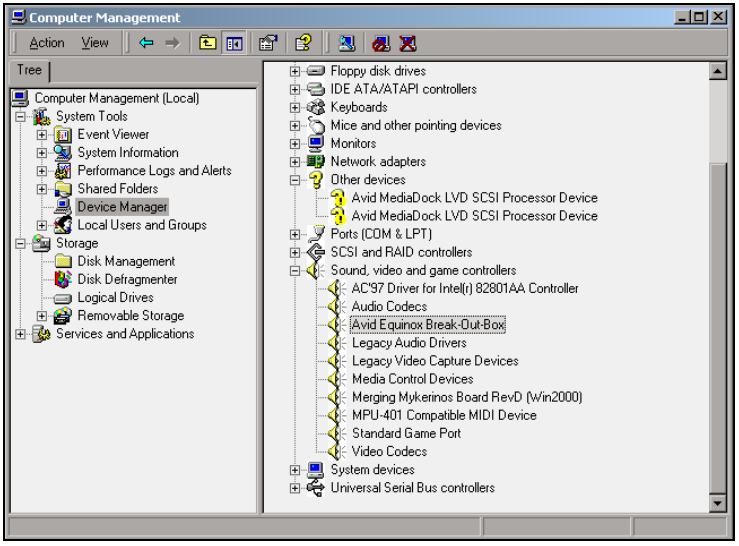
The Avid Equinox Break-Out-Box (BOB) is an I/O device that converts the serial digital video signals used by the HD and SD video equipment and the 20-bit wide data stream used by the Avid Equinox PCI card.

It is not necessary to remove the older version of the Avid Equinox BOB driver before installing the current version.

To install the Avid Equinox BOB driver

1. Right-click on **My Computer** and choose **Manage**.

   The Computer Management window is displayed.

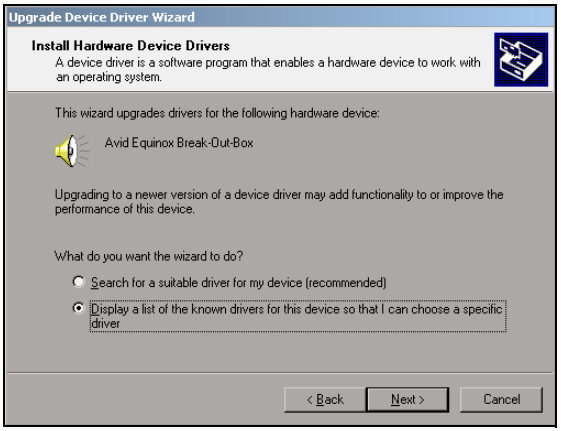


2. Using the tree (left), select **Device Manager** and open **Sound, video and game controllers**.
3. Right-click on **Avid Equinox Break-Out-Box** and choose **Properties**.

   The Avid Equinox Break-Out-Box Properties dialog box is displayed.
4. Select the **Driver** tab and click **Update Driver**.

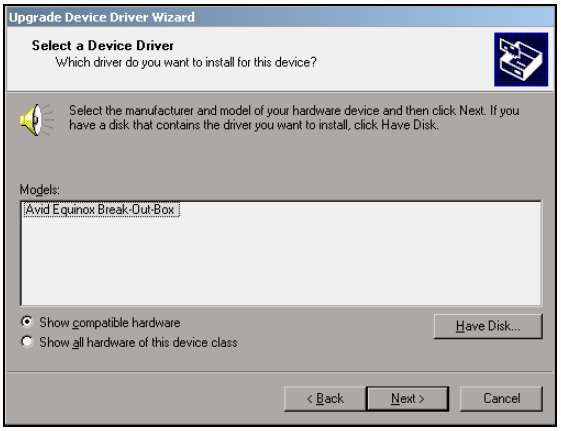
   The Update Device Driver Wizard is displayed.
5. Click **Next**.

   The Install Hardware Device Drivers dialog box is displayed.


Upgrade Device Driver Wizard
Install Hardware Device Drivers
A device driver is a software program that enables a hardware device to work with an operating system.
This wizard upgrades drivers for the following hardware device:
Avid Equinox Break-Out-Box
Upgrading to a newer version of a device driver may add functionality to or improve the performance of this device.
What do you want the wizard to do?
Search for a suitable driver for my device (recommended)
Display a list of the known drivers for this device so that I can choose a specific driver
< Back
Next >
Cancel

6. Select the **Display a list of the known drivers...** option and click **Next**.

   The Select a Device Driver dialog box is displayed.


Upgrade Device Driver Wizard
Select a Device Driver
Which driver do you want to install for this device?
Select the manufacturer and model of your hardware device and then click Next. If you have a disk that contains the driver you want to install, click Have Disk.
Models:
Avid Equinox Break-Out-Box
Show compatible hardware
Show all hardware of this device class
Have Disk...
< Back
Next >
Cancel

7. Click **Have Disk**.

   The Install From Disk dialog box is displayed.

8. Click **Browse** and go to the **\drivers\dbob\driver** folder on the Avid|DS Drivers CD.

9. Click **Open**. In the Install From Disk dialog box, click **OK**.

10. In the Select a Device Driver dialog box, select **Avid Equinox Break-Out-Box** and click **Next.**

11. Click **Next** again to start the installation.

12. When the installation is complete, click **Finish** to close the wizard.

13. In the Controller Properties dialog box click **Close**.

Reinstalling the Windows 2000 Drivers

Some of the drivers are installed by Windows 2000, namely the Adaptec SCSI and ADI Soundmax MIDI drivers. These drivers should not have to be upgraded. However, if these drivers become corrupted, then you'll have to reinstall them.

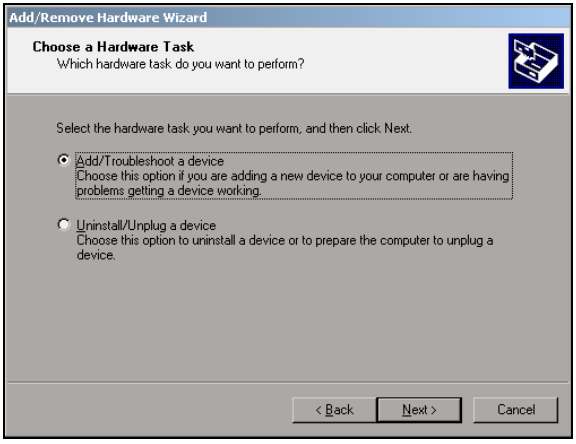
To reinstall the Windows 2000 drivers

1. Go to **Start** > **Settings** > **Control Panel** > **Add/Remove Hardware**.

   The Add Remove Hardware wizard is displayed.

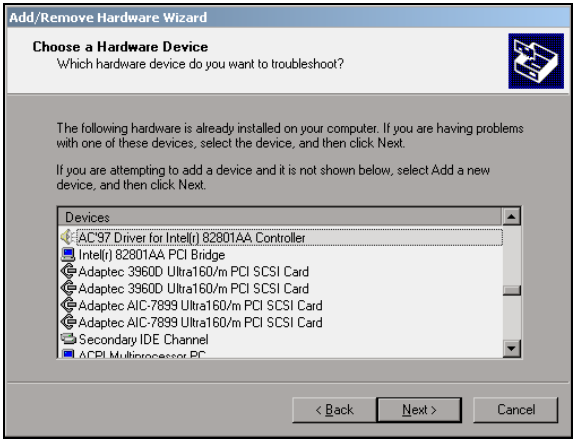
2. Click **Next**.

   The Choose a Hardware Task dialog box is displayed.


Add/Remove Hardware Wizard
Choose a Hardware Task
Which hardware task do you want to perform?
Select the hardware task you want to perform, and then click Next.
Add/Troubleshoot a device
Choose this option if you are adding a new device to your computer or are having problems getting a device working.
Uninstall/Unplug a device
Choose this option to uninstall a device or to prepare the computer to unplug a device.
< Back
Next >
Cancel

3. Select the **Add/Troubleshoot a device** option and click **Next**.

   Windows searches for new hardware and then the Choose a Hardware Device dialog box is displayed.


Add/Remove Hardware Wizard
Choose a Hardware Device
Which hardware device do you want to troubleshoot?
The following hardware is already installed on your computer. If you are having problems with one of these devices, select the device, and then click Next.
If you are attempting to add a device and it is not shown below, select Add a new device, and then click Next.
Devices
AC'97 Driver for Intel(r) 82801AA Controller
Intel(r) 82801AA PCI Bridge
Adaptec 3960D Ultra160/m PCI SCSI Card
Adaptec 3960D Ultra160/m PCI SCSI Card
Adaptec AIC-7899 Ultra160/m PCI SCSI Card
Adaptec AIC-7899 Ultra160/m PCI SCSI Card
Secondary IDE Channel
< Back
Next >
Cancel

4. Select the device that you want to reinstall and click **Next**.
5. Windows automatically locates and installs the driver.

Enabling the MIDI Port

Before the MIDI controller can work, you must enable the workstation's MIDI port through the workstation's BIOS.

To enable the MIDI port

1. Remove all disks from the drives and restart the workstation.
2. While the workstation is starting up, press the **F1** key.

   After a few moments, the Configuration/Setup Utility menu is displayed.
3. Choose **Devices and I/O Ports** and press Enter.

   The Devices and I/O Ports menu is displayed.
4. Choose **Audio Setup** and press Enter.

   The Audio Setup menu is displayed.
5. Choose **Game/MIDI Port**, and use the left and right arrow keys to select **IRQ 5**.
6. Press **Esc** to exit Audio Setup.
7. Press **Esc** again to exit Devices and I/O Ports.
8. Choose **Save Settings** and press Enter.
9. When prompted, press Enter to confirm your choice.
10. From the Configuration/Setup Utility menu, choose **Exit Setup** and press Enter.
11. At the confirmation prompt, choose **Yes, exit Setup Utility** and press Enter.

    The workstation restarts and the MIDI driver is installed.

Confirming a Successful Reinstall

Using the System Diagnostic utility, you can verify that the correct versions of the drivers were installed.

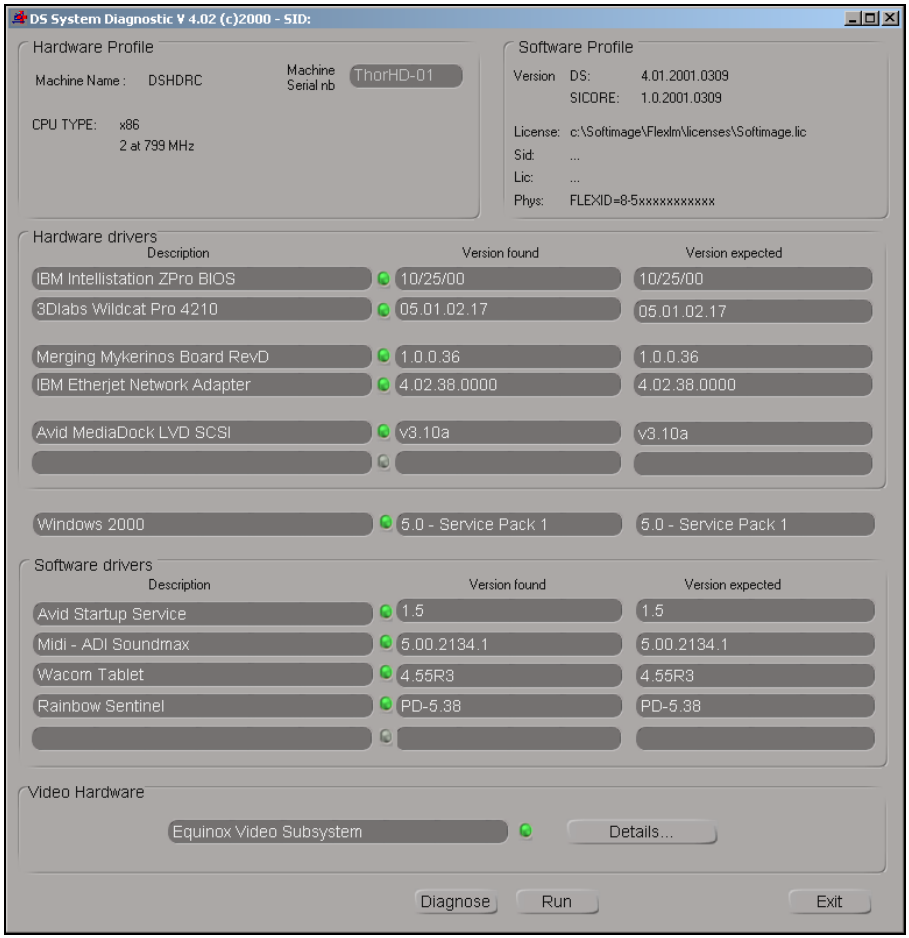
To confirm a successful reinstall of the drivers

1. Go to **Start** > **Programs** > **Avid Products** > **Avid|DS v4.02** > **Customer Service** > **System Diagnostic**.

   The System Diagnostic utility is displayed.

2. In the Machine Serial number box, enter the serial number of your workstation and click **Run**.

   You should see something similar to the following:



The green LEDs show that all the drivers are up to date.

Chapter 3 Installing Avid|DS

In This Chapter...

This chapter describes how to install Avid|DS and install/remove fonts.

Installing Avid|DS 39
Installing and Removing Fonts 47

Installing Avid|DS

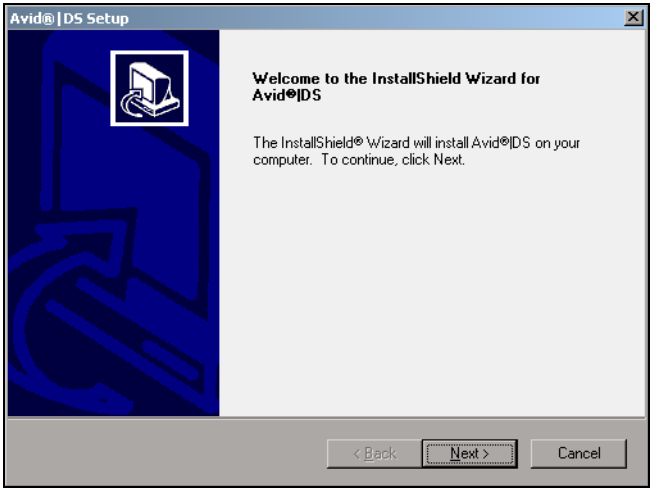
Once all of the hardware drivers are installed, you can install the current version of Avid|DS.

Before you install the current version of Avid|DS, make sure that you've removed any previous versions of Avid|DS from your workstation.

To install Avid|DS, you must log on to an account that has Administrator privileges.

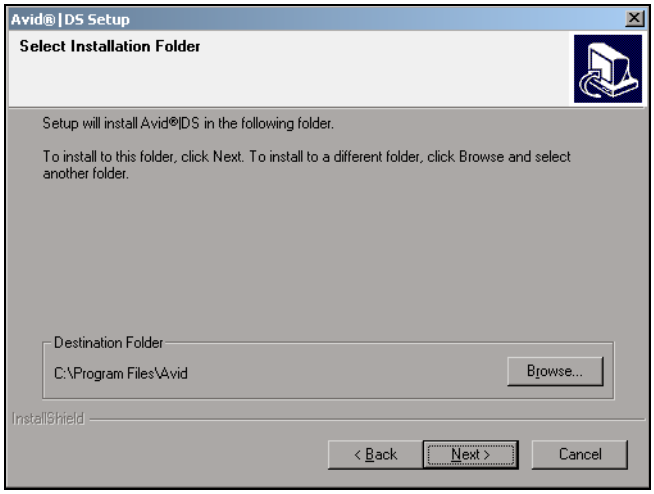
To install Avid|DS

1. From the Avid|DS CD, open the **\DS\DSSetup** folder.
2. Double-click on the **Setup.exe** file.


Avid® | DS Setup
Welcome to the InstallShield Wizard for Avid®|DS
The InstallShield® Wizard will install Avid®|DS on your computer. To continue, click Next.
< Back
Next >
Cancel

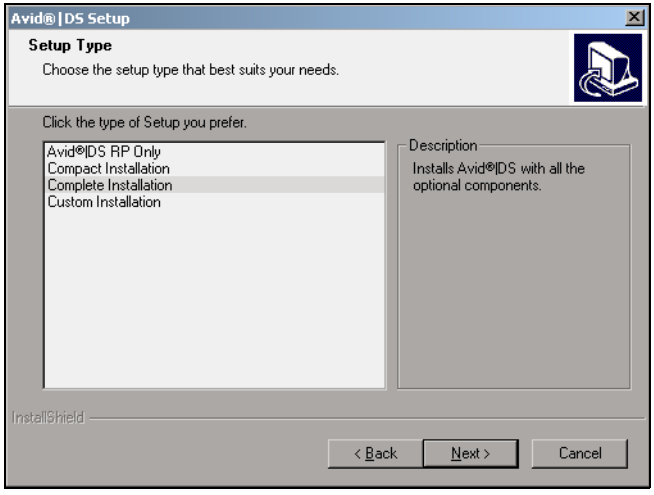
3. In the Avid|DS Setup dialog box, click **Next**.
4. In the License Agreement dialog box, read the End User License Agreement and click **I Accept** to accept the terms of the agreement and continue the installation.
5. In the Customer Information dialog box, enter your name and company name, and click **Next**.
6. In the Reseller or Dealer Information dialog box, enter the requested information and click **Next**.

   The Select Installation Folder dialog box is displayed.


Avid® | DS Setup
Select Installation Folder
Setup will install Avid®|DS in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder
C:\Program Files\Avid
Browse...
InstallShield
< Back
Next >
Cancel

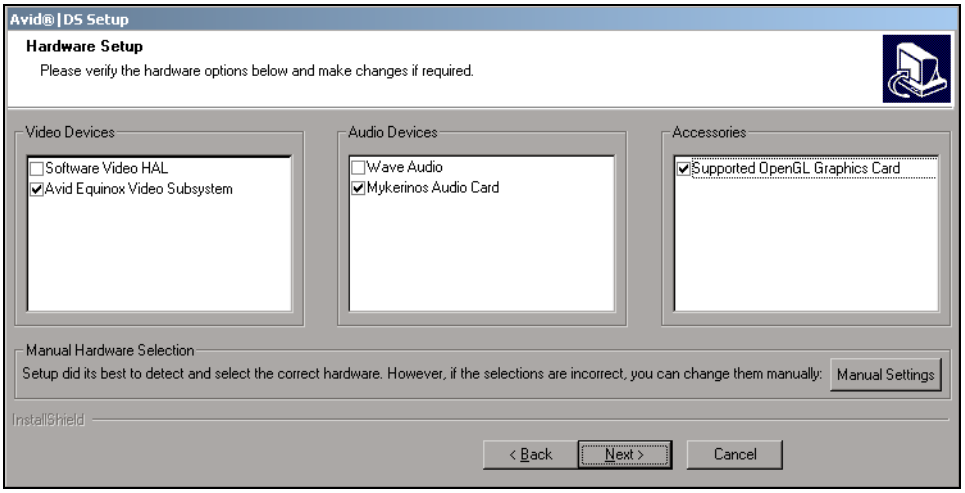
7. Do one of the following:
   - Click **Next** to accept the default folder, or
   - Click **Browse** to specify a folder in which to install Avid|DS, then click **Next**.

   The Setup Type dialog box is displayed.



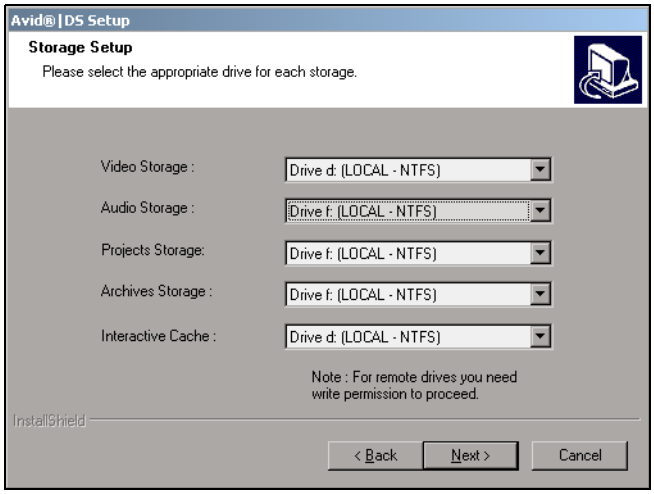
8. Select one of the following types of installation:
   - **Avid|DS RP Only** to install only Avid|DS RP. You won't be able to run Avid|DS, only the remote processor.
   - **Compact Installation** to install Avid|DS and Avid|DS RP without any optional components.
   - **Complete Installation** to install Avid|DS and all the optional components.
   - **Custom Installation** to install only the Avid|DS components that you select.
9. Select the **Complete Installation** option and click **Next**.

   The Hardware Setup dialog box is displayed.


Avid® | DS Setup
Hardware Setup
Please verify the hardware options below and make changes if required.
Video Devices
Software Video HAL
Avid Equinox Video Subsystem
Audio Devices
Wave Audio
Mykerinos Audio Card
Accessories
Supported OpenGL Graphics Card
Manual Hardware Selection
Setup did its best to detect and select the correct hardware. However, if the selections are incorrect, you can change them manually:
Manual Settings
InstallShield
< Back
Next >
Cancel

10. Verify that the hardware matches your workstation's configuration:
    - **Video devices**: Avid Equinox Video Subsytem
    - **Audio devices**: Mykerinos Audio Card
    - **Accessories**: Supported OpenGL Graphics Card
11. If the hardware options don't match your workstation's configuration, click **Manual Settings**, and select the correct hardware options.
12. Click **Next**.

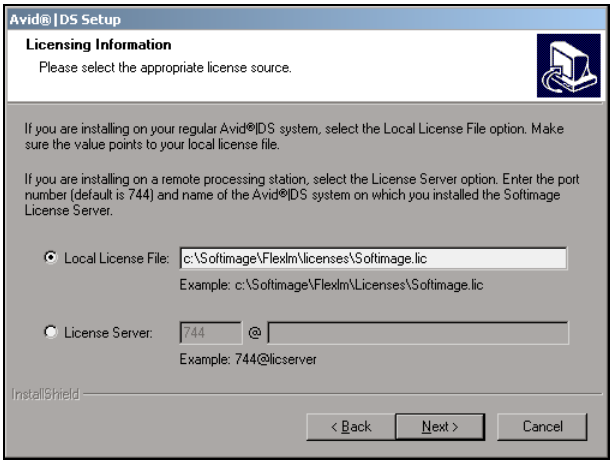
The Storage Setup dialog box is displayed.


Avid® | DS Setup
Storage Setup
Please select the appropriate drive for each storage.
Video Storage :
Drive d: (LOCAL - NTFS)
Audio Storage :
Drive f: (LOCAL - NTFS)
Projects Storage:
Drive f: (LOCAL - NTFS)
Archives Storage :
Drive f: (LOCAL - NTFS)
Interactive Cache :
Drive d: (LOCAL - NTFS)
Note : For remote drives you need write permission to proceed.
InstallShield
< Back
Next >
Cancel

13. Specify the following and click **Next**.

- **Video Storage**: \D: Select the actual drive letter for your video storage configuration.
- **Audio Storage**: \F: Select the actual drive letter for your audio storage configuration.
- **Projects Storage**: \F: Select the actual drive letter for your projects and presets storage configuration.
- **Archives Storage**: \F: Select the actual drive letter for your archives storage configuration.
- **Interactive Cache**: \D: Select the actual drive letter for your interactive cache storage configuration.

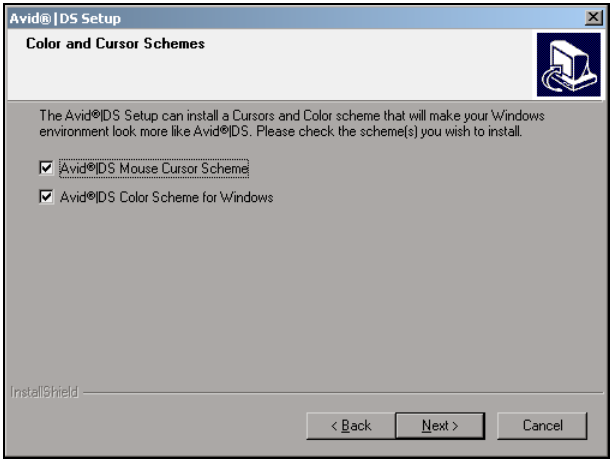
The Licensing Information dialog box is displayed.


Avid® | DS Setup
Licensing Information
Please select the appropriate license source.
If you are installing on your regular Avid®|DS system, select the Local License File option. Make sure the value points to your local license file.
If you are installing on a remote processing station, select the License Server option. Enter the port number (default is 744) and name of the Avid®|DS system on which you installed the Softimage License Server.
Local License File:
c:\Softimage\Flexlm\licenses\Softimage.lic
Example: c:\Softimage\Flexlm\Licenses\Softimage.lic
License Server:
744
@
Example: 744@licserver
InstallShield
< Back
Next >
Cancel

14. Do one of the following:

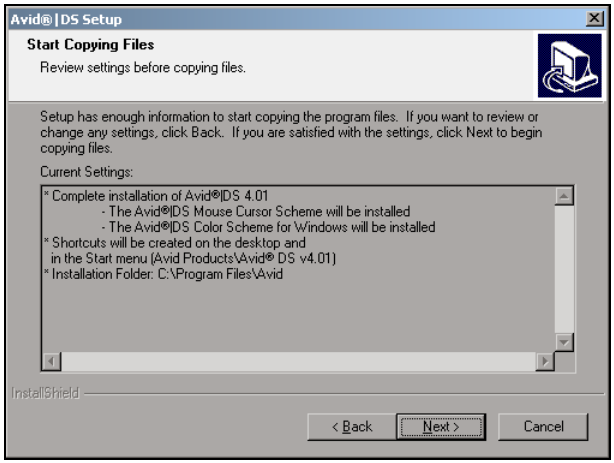
- If you're installing Avid|DS RP only, select the **License Server** option, and enter the following in the text box: **744@*machine_name*** (*machine_name* is the network name of the computer that will be the license server). Click **Next**.
- If you're installing Avid|DS, select the **Local License File** option, enter the following in the text box: **C:\Softimage\flexlm\Licenses\Softimage.lic** and click **Next**.

  The Color and Cursor Schemes dialog box is displayed.


Avid® | DS Setup
Color and Cursor Schemes
The Avid®|DS Setup can install a Cursors and Color scheme that will make your Windows environment look more like Avid®|DS. Please check the scheme(s) you wish to install.
Avid®|DS Mouse Cursor Scheme
Avid®|DS Color Scheme for Windows
InstallShield
< Back
Next >
Cancel

15. Select the schemes that you want to install and click **Next**.

The Start Copying Files dialog box is displayed.

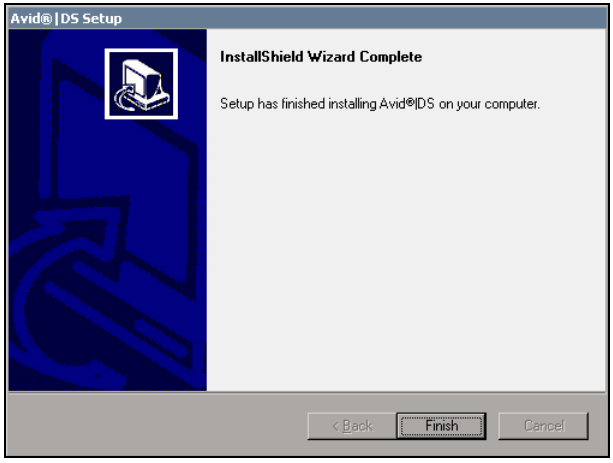

Avid®|DS Setup
Start Copying Files
Review settings before copying files.
Setup has enough information to start copying the program files. If you want to review or change any settings, click Back. If you are satisfied with the settings, click Next to begin copying files.
Current Settings:
* Complete installation of Avid®|DS 4.01
- The Avid®|DS Mouse Cursor Scheme will be installed
- The Avid®|DS Color Scheme for Windows will be installed
* Shortcuts will be created on the desktop and
in the Start menu (Avid Products\Avid® DS v4.01)
* Installation Folder: C:\Program Files\Avid
InstallShield
< Back
Next >
Cancel

16. Review your installation settings and if you're satisfied, click **Next**.

    A progress indicator is displayed as the Avid|DS files are copied to your system.

    If you're installing Avid|DS, you are prompted to install the license server once all the files have been copied to your system.

    If you're installing an Avid|DS RP only, the following dialog box is displayed once all the files have been copied to your system.



17. Click **Finish** to complete the installation.

Installing the License Server

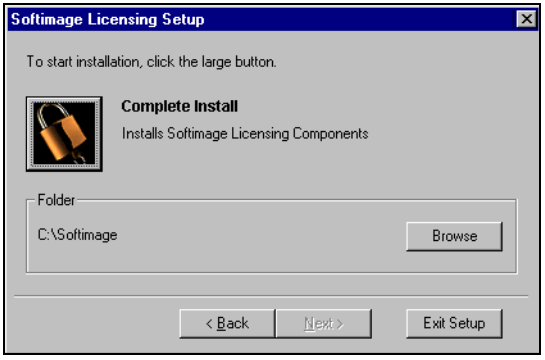
The setup program automatically starts the Softimage Licensing Setup program to install the license server. If you're setting up an Avid|DS workgroup, you must install the license server on one of the client workstations.

If you're installing Avid|DS RP, the Softimage Licensing Setup program will not automatically start.

To install the license server

1. When prompted, click **OK** to start the Softimage Licensing Setup.
2. In the Welcome dialog box, click **Next**.
3. In the License Agreement dialog box, read the License Agreement and click **Yes** to accept the terms and conditions.

   You are prompted to enter your name and the name of your company.
4. Enter the requested information. Click **Next** and then click **Yes** to confirm.

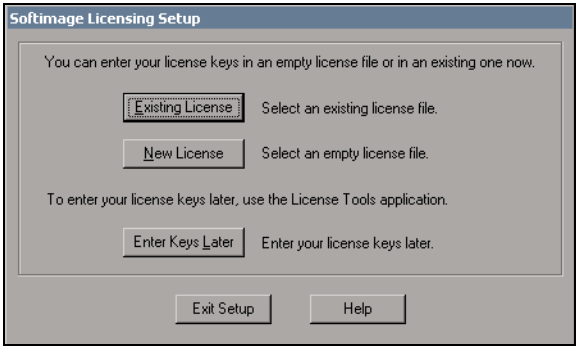


5. In the Softimage Licensing Setup dialog box, click **Complete Install**.

   You are prompted to select a folder in which to install the license server.

6. Select **Avid Products** and click **Next**.

   The program files are copied to your hard drive, and the following dialog box is displayed. You need to enter the license keys from the license file, which you should have already received by e-mail—see *Requesting a License File* on page 51.


Softimage Licensing Setup
You can enter your license keys in an empty license file or in an existing one now.
Existing License
Select an existing license file.
New License
Select an empty license file.
To enter your license keys later, use the License Tools application.
Enter Keys Later
Enter your license keys later.
Exit Setup
Help

7. If you already have an existing license file, click **Existing License**, select the file, and copy the new license keys into the file.
8. Do one of the following:
   - If you're setting up a new license file, click **New License**, and copy the license keys into the file.
   - Otherwise, click **Enter Keys Later**.

   Your installation is now complete.

Installing and Removing Fonts

Avid|DS supports the following typeface formats:

- Type 1
- TrueType (PC-formatted)

Avid|DS does not require any additional software to access TrueType fonts, but does require Adobe Type Manager (ATM) software to access Type 1 fonts.

Included in the \Fonts folder of the Avid|DS CD are 500 fonts from the Bitstream typeface library.

Installing too many fonts on your workstation can noticeably degrade computing performance. Keep the number of fonts installed on your workstation to the minimum necessary to complete your projects.

Installing and Removing Type 1 Fonts

Type 1 font support in Avid|DS is available only if you have the Adobe Type Manager or Adobe Type Manager Deluxe software (version 4.0 or later) installed and active. Consult the documentation that came with the Adobe Type Manager or Adobe Type Manager Deluxe software for instructions on how to install and remove Type 1 fonts.

Installing and Removing TrueType Fonts

TrueType font support in Avid|DS does not require any additional software.

To install TrueType fonts

1. Go to **Start** > **Settings** > **Control Panel** > **Fonts**.

   The Fonts window is displayed.

2. From the File menu, choose **Install New Font**.

   The Add Fonts dialog box is displayed.

3. Use the Folders and Drives lists to navigate to the folder that contains the TrueType fonts that you want to install. On the Avid|DS CD, they're in the \Fonts folder.

   The available TrueType fonts in the selected folder appear in the List of Fonts list.

4. Select the fonts to install from the List of Fonts list, as follows:
   - To select a single font, click the name of the font.
   - To select a range of fonts, click the name of the first font. Then Shift-click the last font in the range.
   - To select all fonts in the directory, click **Select All**.
   - To switch the selection of a font, press the Ctrl key and click a font name.
5. (Optional) You can use the selected fonts from their current folder by deselecting the **Copy fonts to Fonts folder** option. This will save disk space on your local workstation.

   By default, fonts will be added to your workstation's local disk space. If you are adding several fonts, consider using the fonts from their current locations to save local disk space.
6. Click **OK**.

   The selected fonts are installed on your system.
7. If Avid|DS is currently running, restart it to access the newly installed fonts.

To remove TrueType fonts

1. Go to **Start** > **Settings** > **Control Panel** > **Fonts**.

   The Fonts window is displayed.
2. Select the fonts to remove.
3. Press Delete.

   You are prompted to confirm the deletion of the selected fonts.
4. Click **Yes**.
5. Close the Fonts and Control Panel windows.
6. If Avid|DS is currently running, restart it to update the list of available fonts.

Chapter 4 Installing the License File

In This Chapter...

This chapter describes how to request, install, and troubleshoot the license file on an Avid|DS workstation.

Requesting a License File 51

Installing the License File 52

Problems with Licensing 53

Requesting a License File

To run Avid|DS, you must have a license file, as well as a software protection key (Flexid dongle) connected to your parallel port.

If you're a new customer, you must request a license. When the license is issued, you will receive a copy by e-mail.

To request a license file

- Open your Internet browser and go to **http://www.softimage.com/licensing/request** to submit a license request.

You must provide all the information requested in order to obtain your license in a timely manner.

Avid|DS Customer Service does not generate permanent licenses. However, if your license is incorrect or if you haven't received it within 72 hours of your request, Avid|DS Customer Service can generate a limited one-week license. However, it is mandatory that your reseller validate the request.

Installing the License File

The license information stored in the software protection key (dongle) must match the information stored in the license file for the software to be operational. If the information does not match, Avid|DS will not start or function properly.

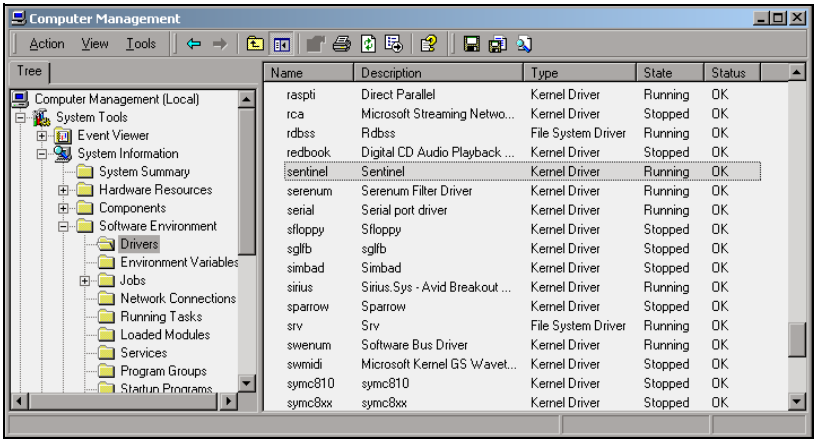
Verifying that the Software Protection Key Driver is Installed

You must have the software protection key (dongle) driver installed and running before you install the license file.

To verify that the dongle driver is installed and running

1. Right-click on **My Computer** and choose **Manage**.

   The Computer Management window is displayed.


Computer Management
Action View Tools
Tree
Computer Management (Local)
System Tools
Event Viewer
System Information
System Summary
Hardware Resources
Components
Software Environment
Drivers
Environment Variables
Jobs
Network Connections
Running Tasks
Loaded Modules
Services
Program Groups
Startup Programs
Name Description Type State Status
raspti Direct Parallel Kernel Driver Running OK
rca Microsoft Streaming Netwo... Kernel Driver Stopped OK
rdbss Rdbss File System Driver Running OK
redbook Digital CD Audio Playback ... Kernel Driver Stopped OK
sentinel Sentinel Kernel Driver Running OK
serenum Serenum Filter Driver Kernel Driver Running OK
serial Serial port driver Kernel Driver Running OK
sfloppy Sfloppy Kernel Driver Stopped OK
sglfb sglfb Kernel Driver Stopped OK
simbad Simbad Kernel Driver Stopped OK
sirius Sirius.Sys - Avid Breakout ... Kernel Driver Running OK
sparrow Sparrow Kernel Driver Stopped OK
srv Srv File System Driver Running OK
swenum Software Bus Driver Kernel Driver Running OK
swmidi Microsoft Kernel GS Wavet... Kernel Driver Stopped OK
symc810 symc810 Kernel Driver Stopped OK
symc8xx symc8xx Kernel Driver Stopped OK

2. Use the tree (left) to navigate to **System Tools** > **System Information** > **Software Environment** > **Drivers**.
3. Scroll down the list until you find the **Parallel**, **DS1410D**, and **Sentinel** devices, and verify that for each the following is true:
   - **State**: Running
   - **Status**: OK

To install the license file

1. Copy the obtained license file to a diskette with the file name **Softimage.lic**.
2. Copy the Softimage.lic file from the diskette to **C:\Softimage\Flexlm\Licenses\Softimage.lic**.
3. To verify that the license file was properly installed, start Avid|DS.

   If Avid|DS starts and displays no error messages, the license is working properly. If not, see *Problems with Licensing* on page 53.

Problems with Licensing

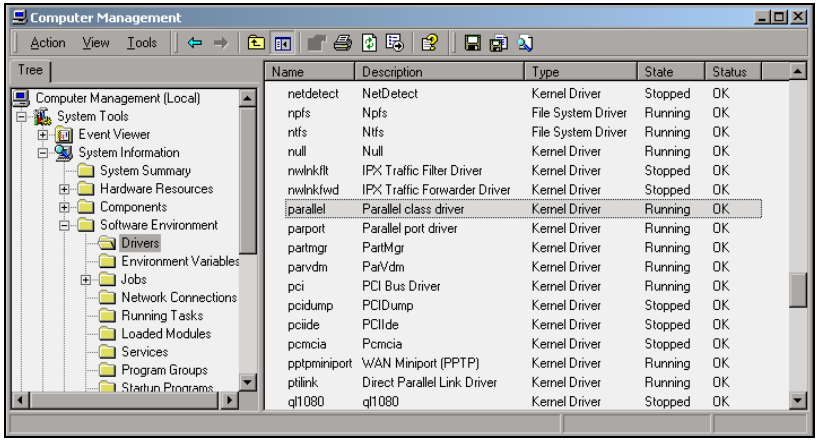
Before you can start Avid|DS, your system needs a software protection key (dongle) and a license file. If the dongle identification number matches the information in the license file, Avid|DS will start.

If the licensing components are not properly set up, Avid|DS will not start and an error message is displayed. If this occurs, perform the following troubleshooting steps. If startup problems persist, contact your reseller.

To verify that the dongle is properly installed

1. Make sure that the dongle is attached to the base unit's parallel port (LPT1) and secured with the locking screws—refer to *The Software Protection Key* on page 53 of the Avid|DS 4.02 Workstation Setup Guide.
2. Right-click on the **My Computer** icon and choose **Manage**.

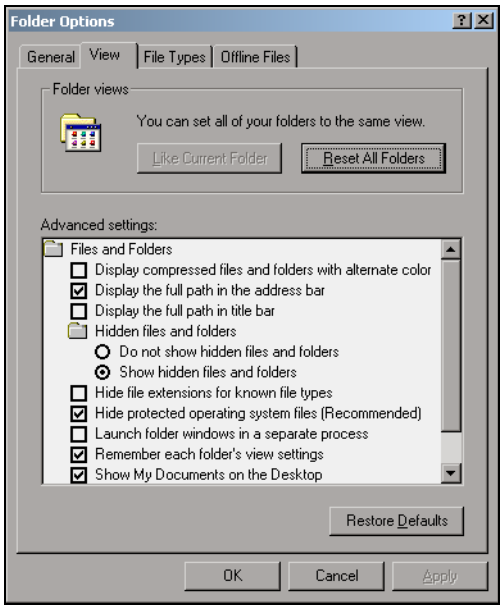
   The Computer Management window is displayed.



3. Use the tree (left) to navigate to the **System Tools** > **System Information** > **Software Environment** > **Drivers** folder.
4. Scroll down the list until you find the **Parallel**, **DS1410D**, and **Sentinel** devices, and verify the following for each device:
   - **State**: Running
   - **Status**: OK

To verify the file extension of the license file

1. Go to **Start** > **Settings** > **Control Panel** > **Folder Options**.
2. Select the **View** tab.
3. From the Advanced Settings list, select the **Show hidden files and folders** option.

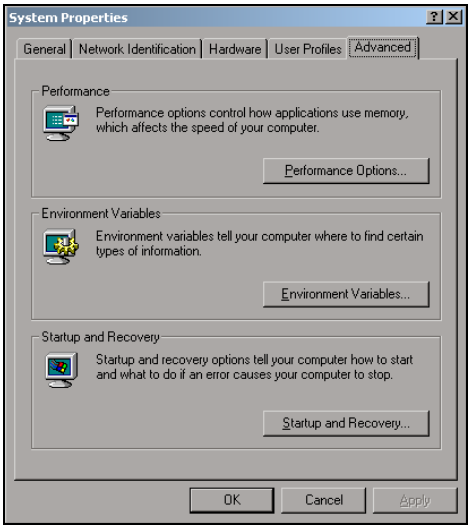

Folder Options
General
View
File Types
Offline Files
Folder views
You can set all of your folders to the same view.
Like Current Folder
Reset All Folders
Advanced settings:
Files and Folders
Display compressed files and folders with alternate color
Display the full path in the address bar
Display the full path in title bar
Hidden files and folders
Do not show hidden files and folders
Show hidden files and folders
Hide file extensions for known file types
Hide protected operating system files (Recommended)
Launch folder windows in a separate process
Remember each folder's view settings
Show My Documents on the Desktop
Restore Defaults
OK
Cancel
Apply

4. Deselect the **Hide file extensions for known file types** option, and click **OK**.
5. Open the **C:\Softimage\Flexlm\Licenses** folder, and verify that the license file is named: **Softimage.lic**.
6. If the file name extension is anything other than ".lic", right-click on the file, choose **Rename**, and change the file name extension to **.lic**.

To verify the environment setting for the license file

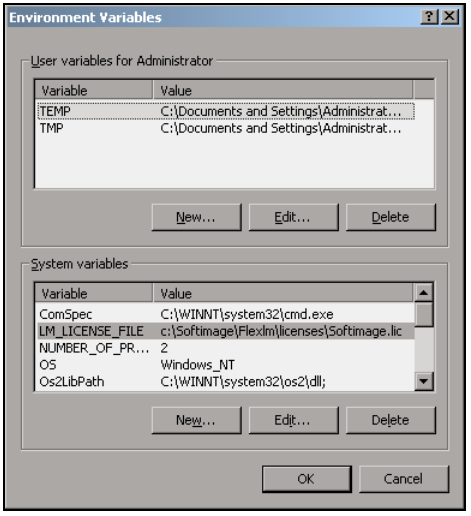
1. Go to **Start** > **Settings** > **Control Panel**.
2. Double-click on **System**.

   The System Properties dialog box is displayed.


System Properties
General
Network Identification
Hardware
User Profiles
Advanced
Performance
Performance options control how applications use memory, which affects the speed of your computer.
Performance Options...
Environment Variables
Environment variables tell your computer where to find certain types of information.
Environment Variables...
Startup and Recovery
Startup and recovery options tell your computer how to start and what to do if an error causes your computer to stop.
Startup and Recovery...
OK
Cancel
Apply

3. Select the **Advanced** tab.
4. Click **Environment Variables**.

   The Environment Variables dialog box is displayed.



5. From the System Variables list, select **LM_LICENSE_FILE**.

   Its value should be: **C:\Softimage\Flexlm\Licenses\Softimage.lic**.

6. If it is not, click **Edit**.

   The Edit System Variable dialog box is displayed.

7. Enter the following path in the Variable Value text box: **C:\Softimage\Flexlm\Licenses\Softimage.lic** . Click **OK**.

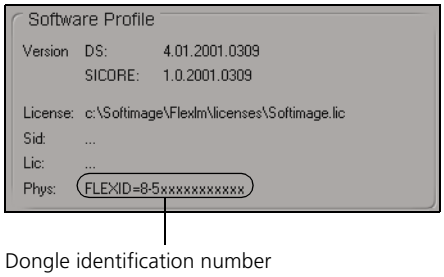
8. In the Environment Variable dialog box, click **OK**.

9. In the System Properties dialog box, click **OK** to finish.

To verify that the license number matches the dongle identification number

1. Go to **Start** > **Programs** > **Avid Products** > **Avid|DS v4.02** > **Customer Service** > **System Diagnostic**.

2. In the Machine Serial nb text box, enter the serial number of your workstation, and click **Run**.



   The value displayed in the Software Profile box, under License Phys, is your workstation's dongle identification number (for example, Phys: FLEXID=8-5*xxxxxxxxxx*).

3. Compare this value with the value in your system's **Softimage.lic** file, which is located in the **C:\Softimage\Flexlm\Licenses** folder. If they're not the same, contact your reseller or Avid|DS Customer Service.

Chapter 5 Managing Your Avid|DS Workstation

In This Chapter...

This chapter contains information on your Avid|DS workstation and general guidelines on its maintenance and administration.

Folders Installed On Your System 59
Managing User Accounts. 62
Drive Maintenance. 66
About Striping 68
Creating a Stripe Set 69
Creating an Emergency Repair Disk 76

Folders Installed On Your System

When you install Avid|DS, seven folders are created to hold various system files, project files, as well as media and cache files:

Folder	Description	Location
DS_v4.02	Contains the files required to run Avid|DS	C:\Program Files\Avid\DS_v4.02
DS Archives	Contains information on archived projects	F:\DS Archives
DS Projects	Contains the projects, sequences, and clips that you create in Avid|DS	F:\DS Projects
DSPresets	Contains customized effects that you can use in Avid|DS when creating graphics, transitions, compositing, etc.	C:\Program Files\Avid\DS_v4.02\DSPresets
VideoStorage	Contains the video media and cache files that you capture and bring into Avid|DS	D:\VideoStorage
Projects\Audio	Contains the audio media and cache files that you capture and bring into Avid|DS	F:\Projects\Audio
DSSystem	Contains system files	C:\Program Files\Avid\DS_v4.02\DSSystem

The DS_v4.02 Folder

The Avid|DS executable and the various .DLL files required by the application are in the C:\Program files\Avid\DS_v4.02 folder.

Do *not* move or modify any of the folders in the DS_v4.02 folder.

The DS_v4.02 folder contains several folders of which the following may be of interest:

Folder	Description
Command Maps	Contains the command maps for the different views and layouts in Avid|DS
DSPresets	Contains customized effects that you can use in Avid|DS when creating graphics, transitions, compositing, etc.
Help	Contains all the files required to use the online help, which provides reference information on property editors, dialog boxes, parameters, interface elements, and tasks
Preferences	Contains the user preferences and customized layouts, toolbars, and key maps

The DS Archives Folder

The DS Archives folder is used by Avid|DS to keep track of archived projects.

The DS Projects Folder

The DS Projects folder contains the projects that you create with Avid|DS. Each time you create a new project, you are prompted to select a location for the project folder. Although you may store project folders anywhere on a local disk, it is easier to manage projects if they're all stored in the DS Projects folder.

The project folder contains the clips and sequences associated with a project. Each project folder also contains a System folder.

Do *not* move, delete, or modify the contents of the System folder. The System folder should also be hidden. To hide specific file types, choose **Options** from the View menu in Windows Explorer.

The System folder contains the following information:

- **Source models**: These data structures allow Avid|DS to manage the relationship between clips, sequences, and their media. Each time you capture media from a new source, Avid|DS creates a corresponding source model, which tracks the time span, quality, and location of the different media files captured from that source. When you play back a clip from that source, Avid|DS consults the appropriate source model to locate the media.
- **Dsprojectinfo**: This file contains information about the project format and other project preference settings. For more information on project preferences, refer to *Creating a New Project* on page 31 of the Avid|DS 4.0 User's Guide.

The DSPresets Folder

The DSPresets folder contains presets, which you can use to define effects, transitions, graphics tools, and so on. The presets that are shipped with Avid|DS are stored in this folder by default.

Avid|DS also creates a DSPresets folder in each project folder. This lets you store user presets that are specific to a particular project with that project. You can also specify, as part of your user preferences, locations for your own and shared workgroup presets.

The VideoStorage Folder

The VideoStorage folder contains individual folders for each project. Each folder contains the video media and cache files for that project. Each folder's name is generated by the software and is based on a unique identification string (called a *GUID*) that identifies each project.

The Projects\Audio Folder

The Projects\Audio folder contains individual folders for each project. Each folder contains the audio media files for that project.

You should not delete audio or video media files or folders from the Windows 2000 Explorer. If you want to delete a media file, use the Purge or Delete command in Avid|DS. For more information on deleting clips and/or purging media, refer to *Managing Media* on page 49 of the Avid|DS 4.0 User's Guide.

The DSSystem Folder

The C:\Program Files\Avid\DS_v4.02\DSSystem folder contains system files and several folders used by Avid|DS.

Folder	Description
DSSystem	Contains the autosave files, viewer and test pattern bitmaps, some critical Avid|DS system files, and the crash log. Before modifying anything in this folder, contact Avid|DS Customer Service.
Rsrc	A resource folder for the 3D database
SoftDB	Contains the 3D database used by the 3D Warp effect

Managing User Accounts

Avid|DS makes full use of the Windows 2000 operating system. This includes multiple user accounts with your Avid|DS presets, layouts, and preferences preserved on an individual basis.

How Avid|DS Uses User Accounts

When you log on to a Windows 2000 workstation, you are accessing an environment associated with your user name. When you set any personal or project preferences while logged on, Avid|DS saves them to your user profile. For example, when you customize the Avid|DS desktop, the layouts that you create are saved with your user name. The next time you log on to that workstation, it recalls your previous settings.

Managing User Accounts

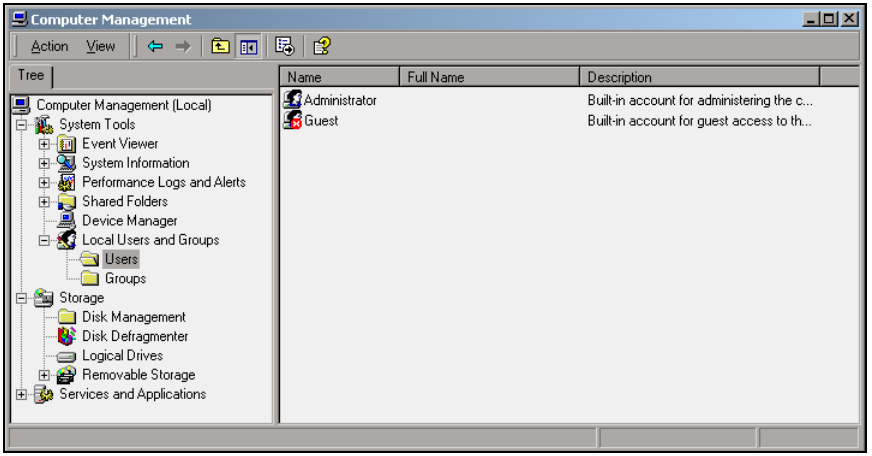
When you first receive your Avid|DS system, the Windows 2000 operating system is already installed, and an administrator account is set up with a blank password.

You can change your password, and create and modify user accounts by accessing the Windows 2000 Computer Management console. The Computer Management console lets you define security features, such as permissions, rights, accounts, user groups, and audit policies.

To create a user account

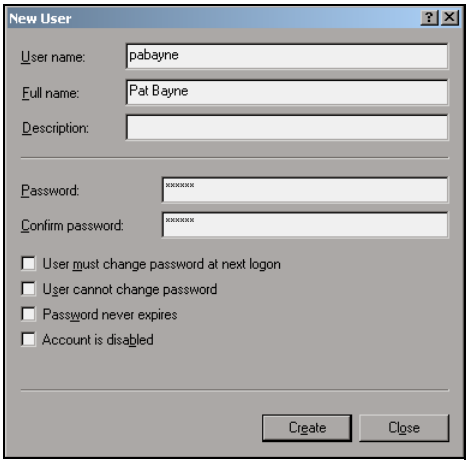
1. Right-click on **My Computer** and choose **Manage**.

   The Computer Management console is displayed.



2. Use the tree (left pane) to navigate to **System Tools** > **Local Users and Groups** > **Users**.
3. From the Action menu, choose **New User**.

   The New User dialog box is displayed.



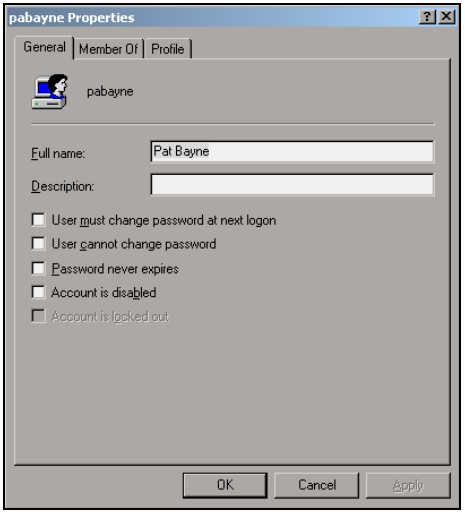
4. Enter the new user information and click **Create**.
5. Repeat the previous step until you're finished adding new users, and then click **Close**.

   The new user accounts are displayed in the Computer Management console.

To modify an account

1. In the Computer Management console, navigate to **System Tools** > **Local Users and Groups** > **Users**.
2. Double-click on the user account you want to edit.

   The <username> Properties dialog box is displayed.



3. Select the **General** tab to specify password options.
4. Select the **Member Of** tab to add the user to groups.

All Avid|DS users must be members of the Power Users group.

5. Select the **Profile** tab to specify and edit user profiles and logon scripts.
6. Click **OK** when you're finished.

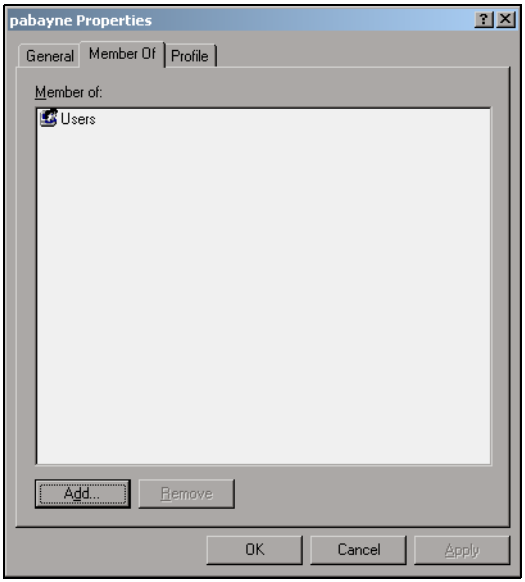
Creating Power Users

All users must be set up as Power Users in Windows 2000 so that they can use Avid|DS.

To add a user to the power user group

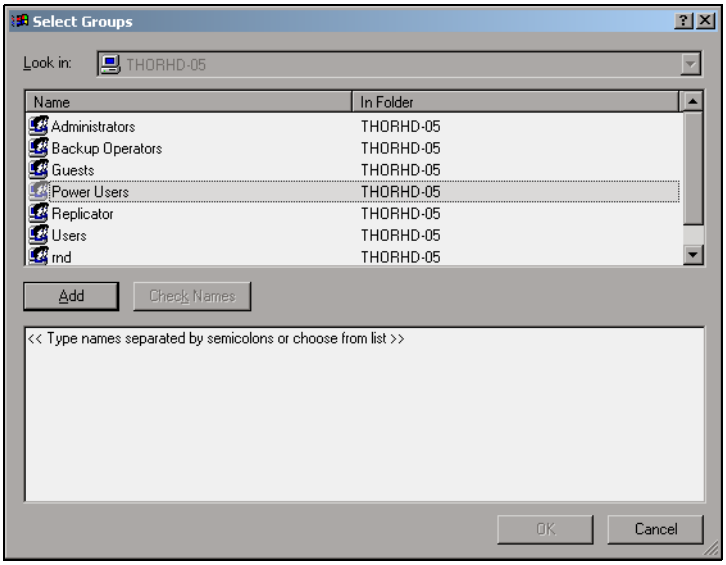
1. From the <username> Properties dialog box, select the **Member Of** tab.

   The following is displayed.



2. Click **Add**.

The Select Groups dialog box is displayed.



3. In the upper pane, select **Power Users** and click **Add**.
4. Click **OK**.
5. In the <username> Properties dialog box, click **OK**.

To delete an account

1. In the Computer Management console, navigate to **System Tools** > **Local Users and Groups** > **Users**.
2. Right-click on an account and choose **Delete**.

Drive Maintenance

To prevent problems, you should keep at least 10% of the disk space on each drive free at all times. Keep in mind that during video media archiving, drive D:, the Video Storage drive, is used to store files for any alpha material in the project.

When you run Avid|DS, it creates two interactive cache files on the Video Storage drive. These two files (DS_interactive_cache.tmp and DS_interactive_cache.tmp.lowres) can use up as much as 500 megabytes of your video storage area, and are mandatory for Avid|DS.

If there isn't enough available space for these files to be created, the system performance will drop dramatically. You may even experience a system failure. You should regularly purge unnecessary media files from the system to allow Avid|DS to work properly. For more information, refer to *Purging Media* on page 55 of the Avid|DS 4.0 User's Guide.

Defragmenting your Drives

Performing a defragmentation on the disk drives helps to maintain your system's performance. The following is a suggested defragmentation schedule:

Drive	Frequency
C:\ (System disk)	Once a month, if required
D:\ (VideoStorage)	Once a week if workload is minimal; every day if workload is intensive
F:\ (Projects/Audio)	Once a month if workload is minimal; once a week if workload is intensive

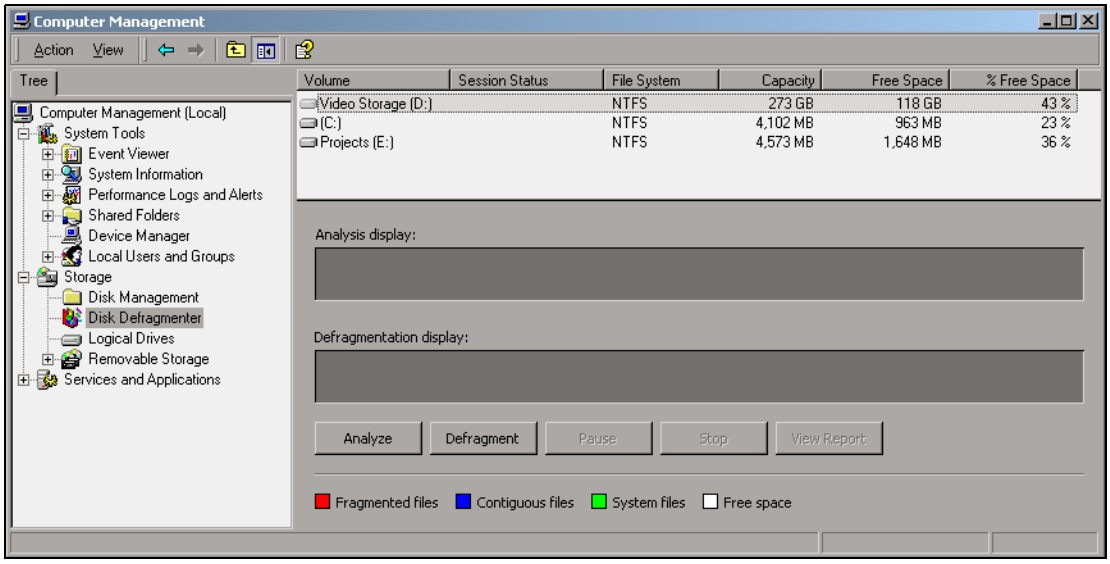
You can use the Windows 2000 Disk Defragmenter utility to defragment your disk drives.

Do *not* defragment your drives while using Avid|DS to capture, output, or process media.

To defragment the drives

1. Right-click on My Computer and choose **Manage**.

   The Computer Management console is displayed.



2. Use the tree (left) to navigate to **Storage** > **Disk Defragmenter**.
3. Right-click on the disk you want to defragment and choose **Defragment**.

About Striping

Striping is the process of configuring hard drives to allow the system to see two or more drives as a single drive. When you transfer files to striped drives, the files are split between the drives, and the data transfer rate increases. Striping is required to work with uncompressed and high video resolutions. Keep in mind the following when striping drives:

- Avid|DS requires at least eight drives striped together to sustain real-time performance.
- You cannot stripe hard drives of different sizes. For example, you can stripe eight 36-GB drives or eight 18-GB drives, but you cannot stripe four 36-GB drives and four 18-GB drives together.
- Striping drives deletes any material on them.
- Striping is cumulative. For example, when you stripe eight 36-GB drives, you can create an approximate 288-GB partition.
- If one drive in a set becomes damaged or inoperable, the data on the remaining drives are lost.
- The capability for striping drives is built into the Windows 2000 operating system.

Creating a Stripe Set

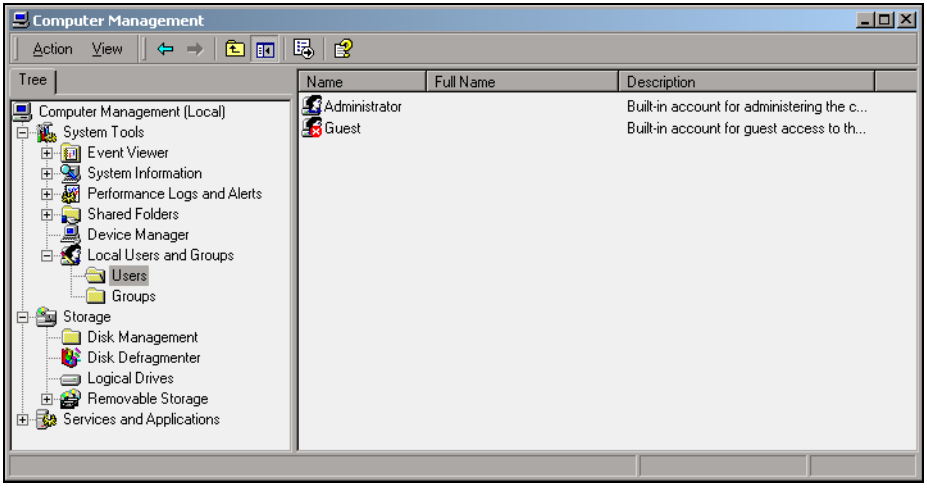
In Windows 2000, the disks in a stripe set must be dynamic disks. Since disks are not usually shipped in this format, you may need to upgrade your disks before you can stripe them. The Disk Manager in the Computer Management console automatically detects whether your disks need to be upgraded to dynamic disks.

If you attempt to create a stripe set from non-Avid drives, Avid makes no representation that the stripe set will perform to Avid specifications for your application or sequence. Consequently, Avid|DS Customer Service will not be able to support any system issues caused by the non-Avid drives or the stripe set.

To upgrade to dynamic disks

1. Right-click on My Computer and choose **Manage**.

   The Computer Management console is displayed.

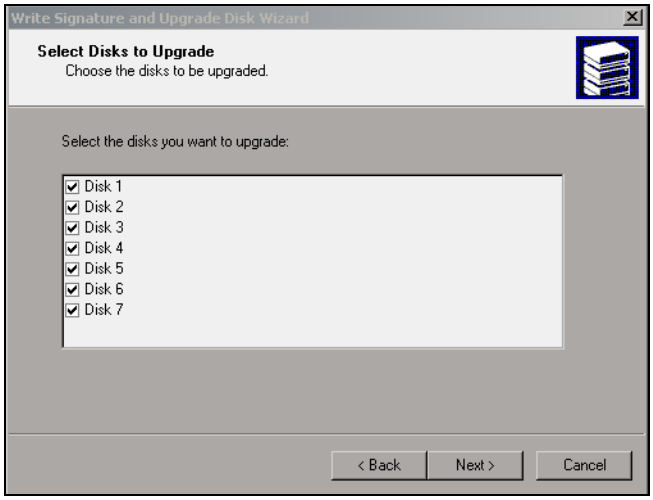


2. Use the tree (left) to navigate to **Storage** > **Disk Management**.

   If the disks in your storage array are not dynamic, the Write Signature and Upgrade Disk Wizard is displayed.

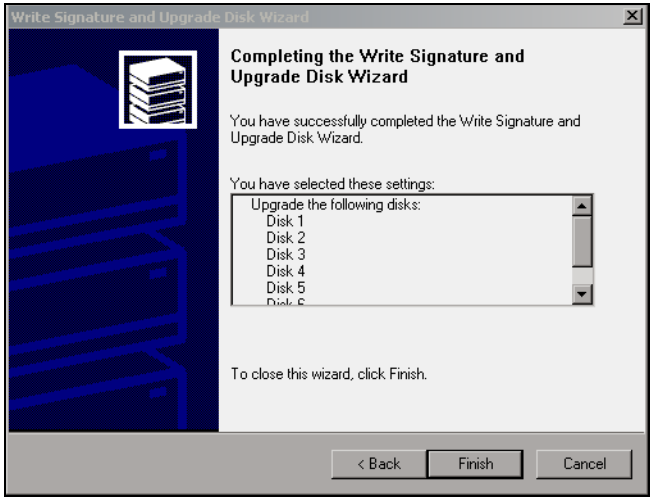
3. Click **Next**.

   The Select Disks to Upgrade dialog box is displayed.



4. Select the disks that need to be upgraded and click **Next**.

   The Completing the Write Signature and Upgrade Disks Wizard is displayed.



5. Verify your selections and click **Finish**.

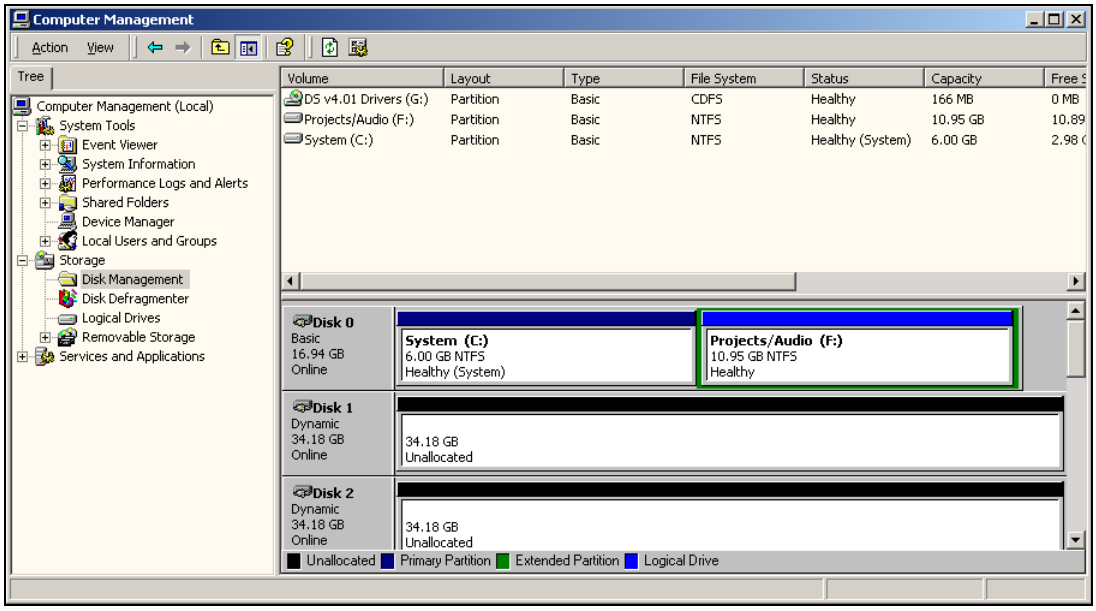
Striping the Drives

Once the disks in your storage array have been upgraded to dynamic disks, you can create the stripe set.

To create a stripe set

1. Right-click on My Computer and choose **Manage**.

   The Computer Management console is displayed.

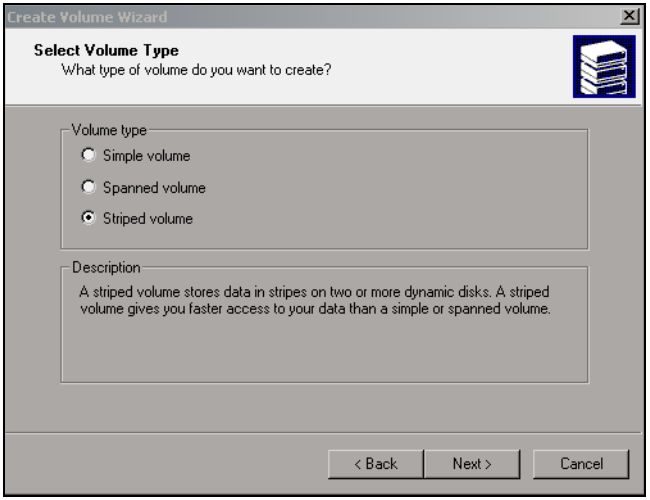


2. Use the tree (left) to navigate to **Storage** > **Disk Management**.
3. Right-click on any of the disks in the stripe set and choose **Create Volume**.

   The Create Volume Wizard is displayed.

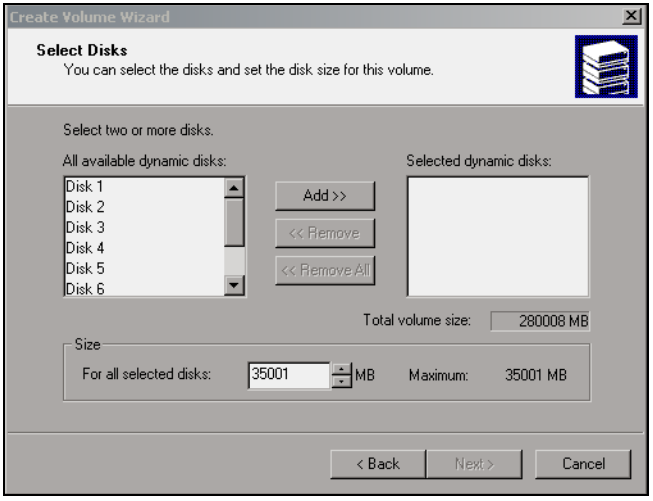
4. Click **Next**.

   The Select Volume Type dialog box is displayed.


Create Volume Wizard
Select Volume Type
What type of volume do you want to create?
Volume type
Simple volume
Spanned volume
Striped volume
Description
A striped volume stores data in stripes on two or more dynamic disks. A striped volume gives you faster access to your data than a simple or spanned volume.
< Back
Next >
Cancel

5. Select **Striped Volume** and click **Next**.

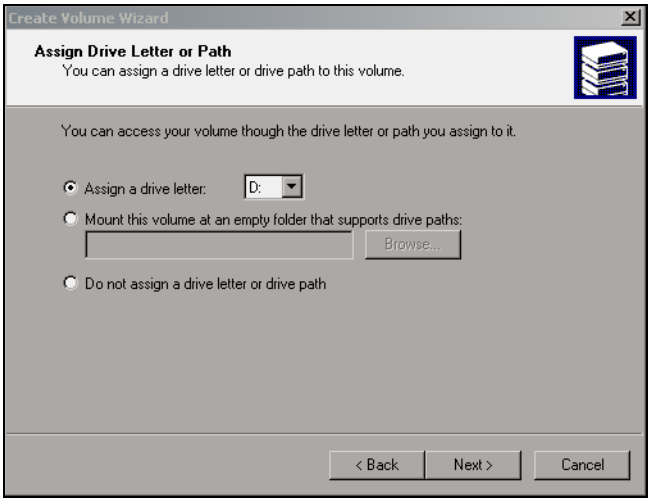
   The Select Disks dialog box is displayed.



6. In the All available dynamic disks box, select each of the disks in the stripe set and click **Add**>>.

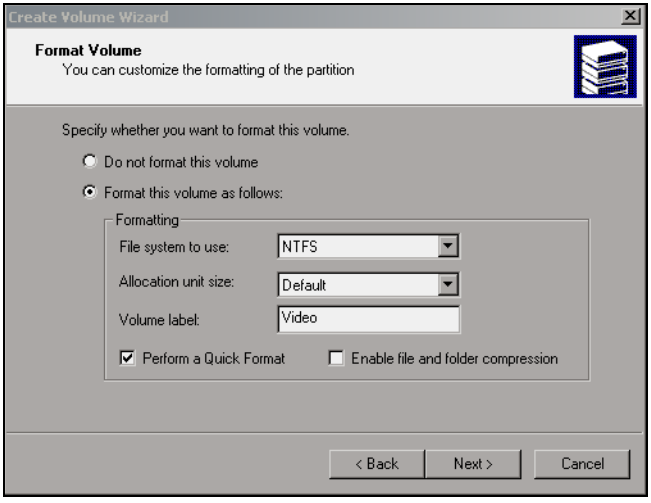
7. When you're finished, click **Next**.

   The Assign Drive Letter or Path dialog box is displayed.


Create Volume Wizard
Assign Drive Letter or Path
You can assign a drive letter or drive path to this volume.
You can access your volume though the drive letter or path you assign to it.
Assign a drive letter:
D:
Mount this volume at an empty folder that supports drive paths:
Browse...
Do not assign a drive letter or drive path
< Back
Next >
Cancel

8. Select the appropriate drive letter for your video storage (normally D:) and click **Next**.

   The Format Volume dialog box is displayed.

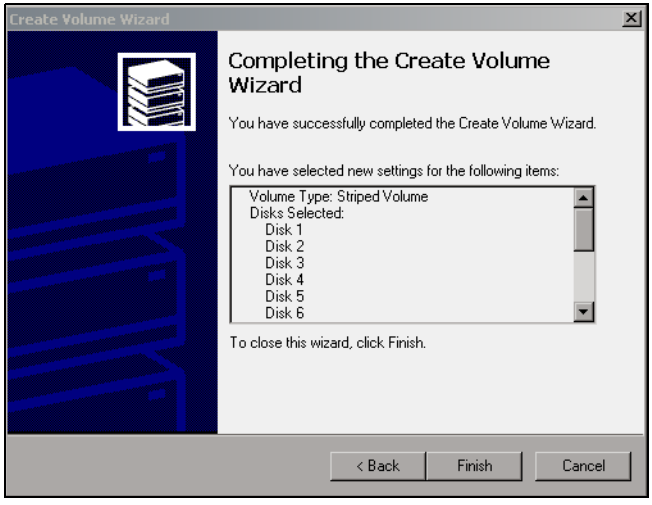


9. Select **Format this volume as follows** and specify the following settings:

Parameter	Setting
File system to use	NTFS
Allocation unit size	Default
Volume label	Video
Perform a Quick Format	Selected
Enable File and Folder Compression	Deselected

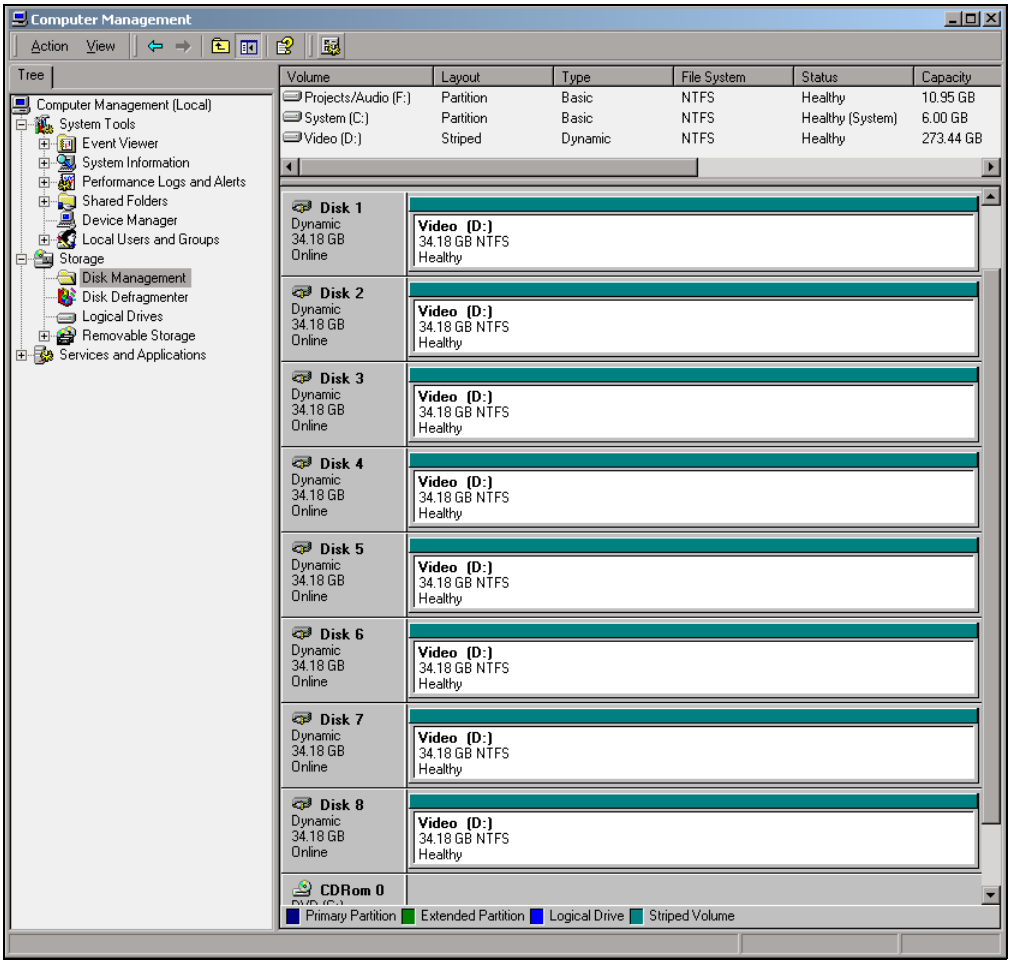
10. Click **Next**

The Completing the Create Volume Wizard is displayed.



11. Verify your settings and click **Finish**.

    Your video storage drives are striped and formatted.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Action View
Tree
Computer Management (Local)
System Tools
Event Viewer
System Information
Performance Logs and Alerts
Shared Folders
Device Manager
Local Users and Groups
Storage
Disk Management
Disk Defragmenter
Logical Drives
Removable Storage
Services and Applications
Volume Layout Type File System Status Capacity
Projects/Audio (F:) Partition Basic NTFS Healthy 10.95 GB
System (C:) Partition Basic NTFS Healthy (System) 6.00 GB
Video (D:) Striped Dynamic NTFS Healthy 273.44 GB
Disk 1 Dynamic 34.18 GB Online
Video (D:) 34.18 GB NTFS Healthy
Disk 2 Dynamic 34.18 GB Online
Video (D:) 34.18 GB NTFS Healthy
Disk 3 Dynamic 34.18 GB Online
Video (D:) 34.18 GB NTFS Healthy
Disk 4 Dynamic 34.18 GB Online
Video (D:) 34.18 GB NTFS Healthy
Disk 5 Dynamic 34.18 GB Online
Video (D:) 34.18 GB NTFS Healthy
Disk 6 Dynamic 34.18 GB Online
Video (D:) 34.18 GB NTFS Healthy
Disk 7 Dynamic 34.18 GB Online
Video (D:) 34.18 GB NTFS Healthy
Disk 8 Dynamic 34.18 GB Online
Video (D:) 34.18 GB NTFS Healthy
CDRom 0
Primary Partition Extended Partition Logical Drive Striped Volume

Creating an Emergency Repair Disk

An emergency repair disk can be used to recover from a system failure in which the operating system has become corrupted. You should create a repair disk after any addition to the system, be it software or drivers.

To create an emergency repair disk

1. Go to **Start** > **Programs** > **Accessories** > **System Tools** > **Backup**.

   The Backup utility window is displayed.

Backup - [Untitled]
Job Edit View Tools Help
Welcome Backup Restore Schedule Jobs
Welcome to the Windows 2000 Backup and Recovery Tools
Backup Wizard
The Backup wizard helps you create a backup of your programs and files so you can prevent data loss and damage caused by disk failures, power outages, virus infections, and other potentially damaging events.
Restore Wizard
The Restore wizard helps you restore your previously backed-up data in the event of a hardware failure, accidental erasure, or other data loss or damage.
Emergency Repair Disk
This option helps you create an Emergency Repair Disk that you can use to repair and restart Windows if it is damaged. This option does not back up your files or programs, and it is not a replacement for regularly backing up your system.

2. Click **Emergency Repair Disk**.

   You are prompted for a blank formatted diskette.

3. Insert the diskette into drive **A:** and click **OK**.
4. Follow the onscreen prompts to create the emergency repair disk.
5. When you're finished, remove the diskette from the drive, label it, and store it in a safe place.

You can make duplicates of the diskettes or save their contents on another storage device for added security.

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